

**BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA**

**TECHNICAL MEMORANDUM**

**ARSENIC SOIL SAMPLING RESULTS, WESTERN BOUNDARY OF  
PARCEL A**

---

**To:** Mr. Brian Mossman  
Boeing Realty Corporation  
3855 Lakewood Blvd.  
Building 1A MC D001-0097  
Long Beach, CA 90846

**From:** Haley & Aldrich, Inc.

**Date:** April 22, 2002

**Re:** Arsenic Soil Sampling Results, Boeing Realty Corporation, Former C-6 Facility – Parcel A, Los Angeles, California

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Haley & Aldrich, Inc. is providing this technical memorandum to summarize the limited field investigation and laboratory analyses for arsenic soil sampling results along the western boundary of Parcel A of the Boeing Realty Corporation's (BRC's) Former C-6 Facility (Facility). Parcel A is one of four parcels (Parcels A through D) of BRC former C-6 Facility, at 19503 South Normandie Avenue in Los Angeles, California, as shown on Figures 1 and 2.

**BACKGROUND**

Parcel A occupies approximately 50 acres in the northern portion of the Facility property and is bordered by West 190<sup>th</sup> Street to the north, railroad tracks and South Normandie Avenue to the east, Parcel C to the south, and Harbrogate Way, Parcel B and International Light Metals to the west (Figure 2). Prior to redevelopment, Parcel A contained Buildings 34, 36, 37, 61, 44, 45, 57, and 67; the northern portions of Buildings 29 and 58; and the chrome recovery system (CRS) located north of Building 40. The site also contained railroad tracks located on the eastern and western portions of the subject parcel and a parking lot located on the western portion of the subject parcel. Aerial photographs indicate the area was farmland before the 1940s. Industrial use of the subject parcel began in 1941 when it was developed as part of an aluminum reduction plant. Prior to 1952, the aluminum reduction plant was converted to a steel manufacturing facility. In 1952, the Douglas Aircraft Company (DAC) used the facility to manufacture aircraft and aircraft components until approximately 1992. From 1992 to 1997, DAC used the buildings primarily for office space and storage.

BRC acquired the Facility in 1997. Comprehensive site investigations were performed and identified areas containing shallow soil impacts were remediated by excavation in 1997 and 1998. Based on the remaining identified residual soil concentrations, the Los Angeles Regional Water Quality Control Board (LARWQCB) issued a closure and no further action letter on April 21, 1998, for shallow soils in Parcel A

*BR C Copy*



**BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA**

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**BACKGROUND**

Parcel A occupies approximately 50 acres in the northern portion of the Facility property and is bordered by West 190<sup>th</sup> Street to the north, railroad tracks and South Normandie Avenue to the east, Parcel C to the south, and Harbrogate Way, Parcel B and International Light Metals to the west (Figure 2). Prior to redevelopment, Parcel A contained Buildings 34, 36, 37, 61, 44, 45, 57, and 67; the northern portions of Buildings 29 and 58; and the chrome recovery system (CRS) located north of Building 40. The site also contained railroad tracks located on the eastern and western portions of the subject parcel and a parking lot located on the western portion of the subject parcel. Aerial photographs indicate the area was farmland before the 1940s. Industrial use of the subject parcel began in 1941 when it was developed as part of an aluminum reduction plant. Prior to 1952, the aluminum reduction plant was converted to a steel manufacturing facility. In 1952, the Douglas Aircraft Company (DAC) used the facility to manufacture aircraft and aircraft components until approximately 1992. From 1992 to 1997, DAC used the buildings primarily for office space and storage.

BRC acquired the Facility in 1997. Comprehensive site investigations were performed and identified areas containing shallow soil impacts were remediated by excavation in 1997 and 1998. Based on the remaining identified residual soil concentrations, the Los Angeles Regional Water Quality Control Board (LARWQCB) issued a closure and no further action letter on April 21, 1998, for shallow soils in Parcel A

(LARWQCB, 1998). In 1999, a portion of Parcel A (approximately 40%) was sold and redeveloped into an AutoNation car dealership.

Currently, BRC is in the process of redeveloping Parcel C. During soil investigation activities on Parcel C, elevated arsenic concentrations were detected along the boundary of Parcels A and C. As a result, additional soil investigation activities were performed on Parcel A.

## **FIELD ACTIVITIES AND RESULTS**

The limited investigation activities included performing a utility clearance, collecting soil grab samples, advancement of soil borings, and laboratory analysis of the soil grab and boring samples. These tasks are discussed below.

### **UTILITY CLEARANCE**

Prior to drilling activities, Haley & Aldrich notified Underground Service Alert (USA) of Southern California for utility clearance of the borings. Also, a private utility locator, Geovision Spectrum (Geovision), marked the area for utilities.

### **SOIL GRAB SAMPLE COLLECTION AND RESULTS**

In June and July 2001, fifteen soil grab samples were collected by Haley & Aldrich, Inc. along the boundary of Parcels A and C from depths ranging from approximately 1 to 7 feet below ground surface (bgs). Grab samples were collected in glass sampling jars or stainless steel tubes by collecting material from a backhoe bucket using a hand trowel or by pushing the tube directly into in-place soils. Sampling jars had threaded, Teflon-lined lids. Stainless steel tubes were assembled with Teflon liners and plastic end caps. Soils were described and logged by a Haley & Aldrich geologist at the site using the Unified Soil Classification System (USCS).

Samples were placed in a cooler with blue ice and transported under standard Chain-of-Custody (COC) procedures to Severn Trent Laboratories (STL) in Santa Ana, California for laboratory analyses. The soil samples were analyzed for arsenic by EPA Method 6010B.

The fifteen soil samples were reported to have arsenic concentrations ranging from 2.9 to 85 milligrams per kilogram (mg/kg) as shown on Table 1 and Figure 3. Based on these results, additional soil borings were drilled and soil samples were collected in Parcel A to delineate the extent of the arsenic impacts.

### **SOIL BORING ADVANCEMENT AND RESULTS**

In August and September 2001, a total of 58 soil samples were collected from 29 soil borings on Parcel A. The 29 soil borings were advanced to approximately 3 feet bgs using a hand auger and soil samples were collected at 1 foot and 3 feet bgs. Soil sampling was constrained to the west side of the underground sewer main along the Parcel A/C boundary since this is reportedly the only area not excavated during the installation of the sewer main in 1998 (Figure 3).

Samples were collected in 1-inch diameter by 6-inch long brass sleeves. Soils were described and logged by a Haley & Aldrich geologist at the site using the USCS. Sample sleeves were sealed with Teflon sheets and plastic caps. Soil samples were collected under COC procedures as described above and submitted to STL for analysis. The samples were analyzed for arsenic by EPA Method 6010B.

Based on the results of the laboratory analysis of the 58 soil samples, arsenic was detected at concentrations ranging from 2.4 to 816 mg/kg. Table 1 and Figure 3 summarize the soil sample analytical results for this investigation. The laboratory reports are included in Appendix A.

If you have any questions regarding the content of this letter, please contact any of the undersigned at (619) 280-9210.

Sincerely yours,  
HALEY & ALDRICH, INC.

Richard M. Farson, PE  
Project Engineer

Scott Zachary  
Project Manager



Attachments:

Table 1 – Parcel A – Arsenic Analytical Results in Parcel A

Figure 1 - Site Location Map

Figure 2 – Former C-6 Facility Plan

Figure 3 – Parcel A Arsenic Soil Sampling Results

Appendix A - Laboratory Report & Chain of Custody

Appendix B - References

Appendix C - Limitations



## **TABLES**

**Table 1**  
**Arsenic Analytical Results, Western Boundary of Parcel A**  
**Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Object Name	Sample Name	Sample Depth		Result (mg/kg)
		(feet)	Analyte	
<i>Grab Samples</i>				
BUILD-1-1-22-11	Build_1_1_22_11	1	Arsenic	19.8
BUILD-1-1-22-12	Build_1_1_22_12	5	Arsenic	18.6
BUILD-1-1-22-18	Bldg_1_1_22_18	1	Arsenic	34
BUILD-1-1-22-5	BUILD_1_1_22_5	1	Arsenic	85
BUILD-1-1-22-6	BUILD_1_1_22_6	7	Arsenic	3
BUILD-1-22-5	BUILD_1_22_071101_5	1	Arsenic	9.3
BUILD-1-E-8-15	BUILD_1_E_8_062601_15	1	Arsenic	3.8
BUILD-1-E-8-16	BUILD_1_E_8_062601_16	6	Arsenic	5
BUILD-1-E-8-23	BUILD_1_E_8_071201_23	1	Arsenic	34.1
BUILD-1-E-8-24	BUILD_1_E_8_071201_24	5	Arsenic	3.3
BUILD-1-E-8-25	BUILD_1_E_8_071201_25	1	Arsenic	24.9
BUILD-1-E-8-26	BUILD_1_E_8_071201_26	5	Arsenic	3.4
BUILD-1-E-8-27	BUILD_1_E_8_071201_27	1	Arsenic	41.2
BUILD-1-E-8-28	BUILD_1_E_8_071201_28	5	Arsenic	2.9
<i>Soil Borings</i>				
PD-96	PD_96_3	3	Arsenic	14.7
PD-96	PD_96_1	1	Arsenic	17.9
PD-97	PD_97_1	1	Arsenic	11.7
PD-97	PD_97_3	3	Arsenic	14.3
PD-98	PD_98_1	1	Arsenic	25.2
PD-98	PD_98_3	3	Arsenic	53.3
PD-99	PD_99_1	1	Arsenic	17.2
PD-99	PD_99_3	3	Arsenic	27.4
PD-100	PD_100_1	1	Arsenic	14.5
PD-100	PD_100_3	3	Arsenic	23.5
PD-101	PD_101_3	3	Arsenic	2.7
PD-101	PD_101_1	1	Arsenic	816
PD-102	PD_102_3	3	Arsenic	3.1
PD-102	PD_102_1	1	Arsenic	6.3
PD-103	PD_103_1	1	Arsenic	12.1
PD-103	PD_103_3	3	Arsenic	4
PD-104	PD_104_3	3	Arsenic	2.9
PD-104	PD_104_1	1	Arsenic	78.7
PD-105	PD_105_3	3	Arsenic	2.8
PD-105	PD_105_1	1	Arsenic	4.1
PD-106	PD_106_3	3	Arsenic	2.9
PD-106	PD_106_1	1	Arsenic	81.3
PD-135	PD_135_3	3	Arsenic	3.5
PD-135	PD_135_1	1	Arsenic	38.3

**Table 1**  
**Arsenic Analytical Results, Western Boundary of Parcel A**  
**Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Object Name	Sample Name	Sample Depth (feet)	Analyte	Result (mg/kg)
PD-136	PD_136_1	1	Arsenic	22.1
PD-136	PD_136_3	3	Arsenic	25.4
PD-137	PD_137_1	1	Arsenic	23.6
PD-137	PD_137_3	3	Arsenic	5
PD-138	PD_138_1	1	Arsenic	12
PD-138	PD_138_3	3	Arsenic	3.7
PD-139	PD_139_1	1	Arsenic	2.5
PD-139	PD_139_3	3	Arsenic	3.6
PD-140	PD_140_3	3	Arsenic	2.4
PD-140	PD_140_1	1	Arsenic	3.2
PD-141	PD_141_1	1	Arsenic	5.8
PD-141	PD_141_3	3	Arsenic	7.3
PD-142A	PD_142A_3	3	Arsenic	4.2
PD-142A	PD_142A_1	1	Arsenic	4.2
PD-164	PD_164_3	3	Arsenic	2.7
PD-164	PD_164_1'	1	Arsenic	21.5
PD-165	PD_165_3	3	Arsenic	2.7
PD-165	PD_165_1	1	Arsenic	38
PD-166	PD_166_1	1	Arsenic	21.7
PD-166	PD_166_3	3	Arsenic	4.5
PD-167	PD_167_1	1	Arsenic	11.1
PD-167	PD_167_3	3	Arsenic	31.7
PD-168	PD_168_3	3	Arsenic	6.8
PD-168	PD_168_1	1	Arsenic	9.2
PD-211	PD_211_1	1	Arsenic	12.8
PD-211	PD_211_3	3	Arsenic	26.4
PD-212	PD_212_3	3	Arsenic	2.5
PD-212	PD_212_1	1	Arsenic	3.3
PD-215	PD_215_1	1	Arsenic	10.9
PD-215	PD_215_3	3	Arsenic	139
PD-216	PD_216_3	3	Arsenic	3.3
PD-216	PD_216_1	1	Arsenic	8.3
PD-217	PD_217_1	1	Arsenic	10.9
PD-217	PD_217_3	3	Arsenic	3.6

**Notes**

mg/kg = milligrams per kilogram

Soil samples analyzed for arsenic by EPA Method 6010B by Severn Trent Laboratories.

Figures



## DOCUMENT SERVICE

611 WEST SIXTH STREET, SUITE 320  
LOS ANGELES, CA 90071  
(213) 627-6701

# Certificate Of Authenticity

This Is To Certify That The Micro Photographs Appearing On This Reel Of Film

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Ending With :

2256 - ITEM # 192

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Produced For :

BOEING INTERNATIONAL

Case Name :

BOEING

Date Microfilmed :

AUG 1, 2002

Filming Location :

3760 - KILROY AIRPORT WAY #300 LONG BEACH

Camera Operator :

LEO

PRINT NAME

SIGNATURE

## **FIGURES**

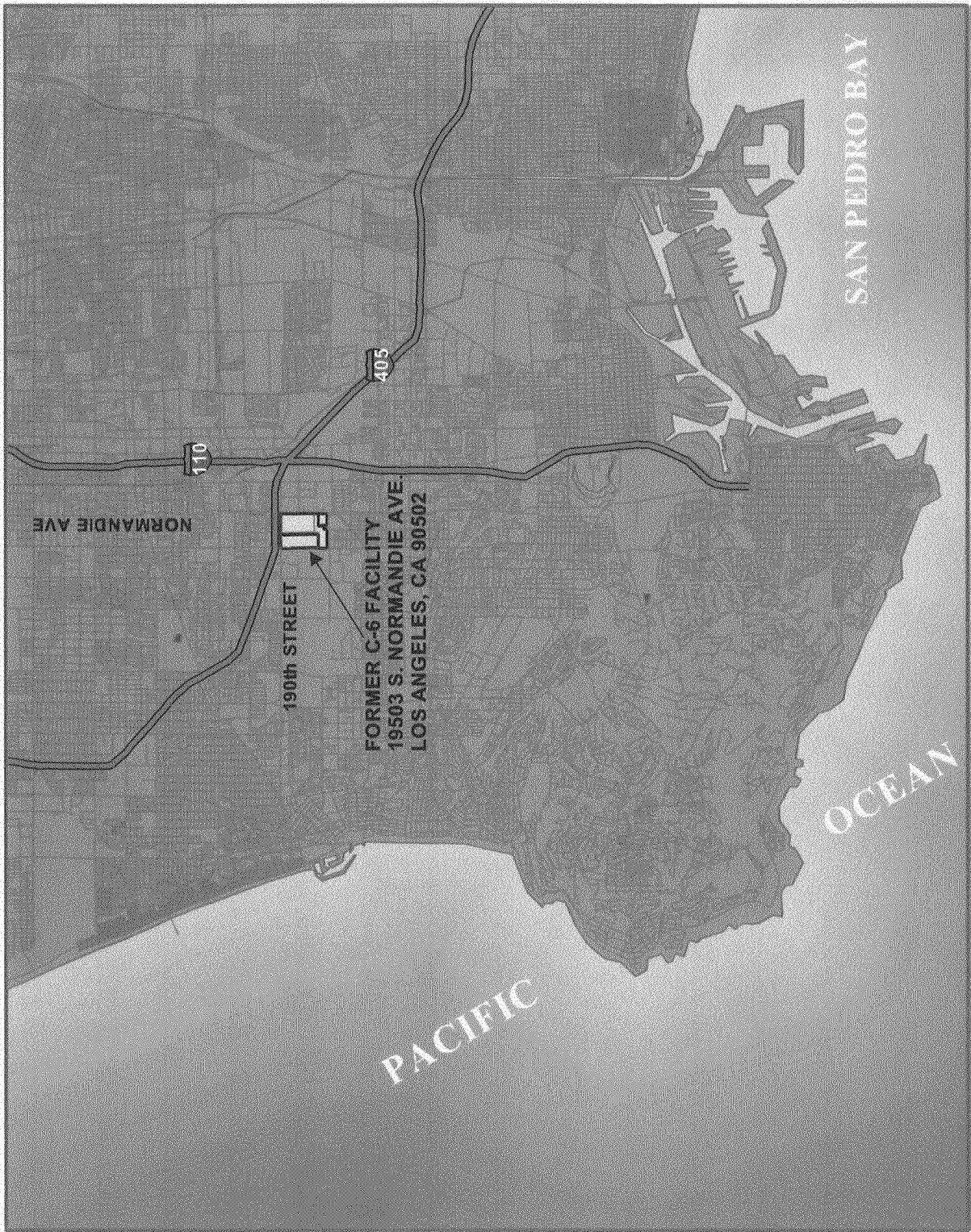
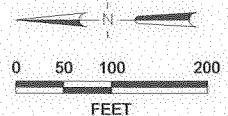


Figure 1  
Site Location Map

Boeing Realty Corporation  
Former C-6 Facility  
Los Angeles, California

UNDERGROUND ENGINEERING &  
ENVIRONMENTAL SOLUTIONS  
Scale : As Shown | QAQC : Project : 27285  
Drawn : DFM | Reviewed : SP Date : 1 March 2002



SOURCE OF BASE MAP: KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY - PARCEL C, LOS ANGELES, CALIFORNIA, AUGUST 16, 2000  
G:\PROJECTS\ENVIRONMENTAL\27285-013\272850.DWG

#### LEGEND

- PARCEL BOUNDARY
- PARCEL C BUILDING OUTLINE

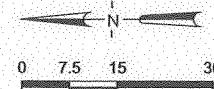
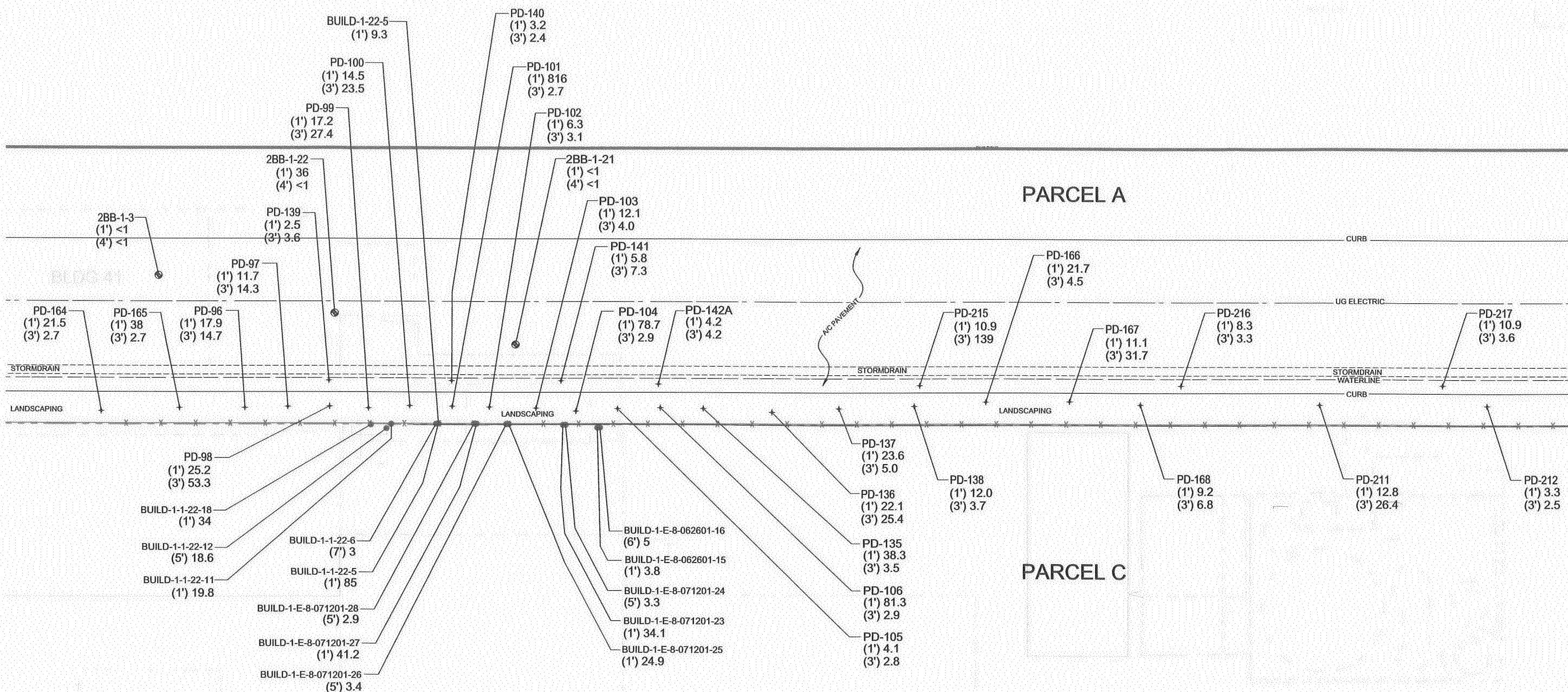


BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

#### FORMER C-6 FACILITY PLAN

FIGURE: 2

SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-013  
DRAWN: SAL REVIEWED: BAB DATE: 22 APRIL 2002



ALL DIMENSIONS AND LOCATIONS APPROXIMATE

SURVEY DATA PROVIDED BY TAIT ENVIRONMENTAL, INC.  
G:\PROJECTS\ENVIRONMENTAL\272850--\272850--.DWG

LEGEND	
PD-106	SOIL BORING LOCATION
BUILD-1-E-8-071201-25	GRAB SAMPLE LOCATION
2BB-1-3	PREVIOUS SOIL BORING (1997)
(1')	SAMPLE DEPTH FROM SURFACE (FEET)
24.9	ARSENIC RESULTS IN mg/kg



BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

**PARCEL A  
ARSENIC SOIL SAMPLING RESULTS**

SCALE: AS SHOWN	QA/QC:	PROJECT: 27285-011
DRAWN: SAL	REVIEWED: RMF	DATE: 22 APRIL 2002

FIGURE: 3

Appendix A

**APPENDIX A**  
**LABORATORY REPORT**

**SEVERN  
TRENT  
SERVICES**

**STL Los Angeles**  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808

Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

September 24, 2001

**STL LOT NUMBER: E1I210360**  
**NELAP Certification Number: 01118CA**  
**PO/CONTRACT: 05160-SEV002-S56**

Scott Zachary  
Haley & Aldrich Inc  
9040 Friars Road  
Suite 220  
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 26 samples received under chain of custody by STL Los Angeles on September 21, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki  
Project Manager  
CC: Project File

Page 1 of **000047** total pages in this report.

**000002**

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



LOT NUMBER E1I210360

Nonconformance 05-02206 - CLOSED

**Affected Samples:**

E1I210360 (25): PD\_220\_1  
E1I210360 (26): PD\_220\_3

**Affected Methods:**

6010B

**Case Narrative:**

The client ID for sample #25 and #26 on the COC is PD-120-1 and PD-120-3. The container labels indicate the sample ids as PD-220-1 and PD-220-3. The client verified that the sample ids should be as written on the labels. The report reflect the corrected ids.

The temperature recorded upon arrival was 24.4 deg C. The samples came directly from the field and no cooler was provided.



000002

**Chain of  
Custody Record**

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>			Date <b>9/21/01</b>	Chain of Custody Number <b>049858</b>												
Address <b>9040 FRIARS RD, SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619 280-9210</b>			Lab Number <b>E1I210360</b>	Page <b>1</b> of <b>3</b>												
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92108</b>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)			Special Instructions/ Conditions of Receipt											
Project Name and Location (State) <b>BOEING C6 - TORRANCE</b>			Carrier/Waybill Number																
Contract/Purchase Order/Quote No. <b>27285 - 001</b>			Matrix		Containers & Preservatives														
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	AT	Aliquots	SpdS	Spill	Unpres.	HgSO4	NaCl	HCl	NaOH	CaHgZn	NaBH4	<b>ARSENIC</b>			
PD-208-1'			9/21/01	12:00		X		X											
PD-208-3'																			
PD-209-1'																			
PD-209-3'																			
PD-210-1'																			
PD-210-3'																			
PD-211-1'																			
PD-211-3'																			
PD-212-1'																			
PD-212-3'																			
PD-213-1'																			
PD-213-3'																			
Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client			<input checked="" type="checkbox"/> Disposal By Lab			<input type="checkbox"/> Archive For _____ Months										
QC Requirements (Specify)																			
Turn Around Time Required																			
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other																			
1. Relinquished By <i>J. huf</i>			Date 9/21/01	Time 16:00	1. Received By <i>M. W.</i>			Date 9/21/01 Time 16:00											
2. Relinquished By <i>M. W.</i>			Date 9/21/01	Time 17:30	2. Received By <i>P. coetz</i>			Date 9/21/01 Time 17:30											
3. Relinquished By			Date	Time	3. Received By														
Comments																			

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>						Date <b>9/21/01</b>	Chain of Custody Number <b>049859</b>					
Address <b>9040 FRIARS RD, SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619-280-9210</b>						Lab Number <b>E11210360</b>	Page <b>2</b> of <b>3</b>					
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92108</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)								
Project Name and Location (State) <b>BOEING C6 - TORRANCE</b>			Carrier/Waybill Number						Special Instructions/ Conditions of Receipt						
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix		Containers & Preservatives										
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2	Pb(NH3)4
<b>PD-214-1'</b>			<b>9/21/01</b>	<b>12:00</b>				X	X					X	
<b>PD-214-3'</b>															
<b>PD-215-1'</b>															
<b>PD-215-3'</b>															
<b>PD-216-1'</b>															
<b>PD-216-3'</b>															
<b>PD-217-1'</b>															
<b>PD-217-3'</b>															
<b>PD-218-1'</b>															
<b>PD-218-3'</b>															
<b>PD-219-1'</b>															
<b>PD-219-3'</b>															
Possible Hazard Identification						Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required										QC Requirements (Specify)					
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <i>Zhu</i>			Date <b>9/21/01</b>		Time <b>16:00</b>		1. Received By <i>J. Johnson</i>				Date <b>9/21/01</b>		Time <b>16:00</b>		
2. Relinquished By <i>M. M. Johnson</i>			Date <b>9/21/01</b>		Time <b>17:30</b>		2. Received By <i>J. Johnson</i>				Date <b>9/21/01</b>		Time <b>17:30</b>		
3. Relinquished By			Date		Time		3. Received By				Date		Time		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>						Date <b>9/21/01</b>	Chain of Custody Number <b>049860</b>						
Address <b>9040 FRIARS RD, SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619-280-9210</b>						Lab Number <b>E1I210360</b>	Page <b>3</b> of <b>3</b>						
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92103</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)									
Project Name and Location (State) <b>BOEING C6 - TORRANCE.</b>			Carrier/Waybill Number						Special Instructions/ Conditions of Receipt <i>PARSERIC</i>							
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix		Containers & Preservatives											
Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>			Date <b>9/21/01</b>	Time <b>12:00</b>	Aqueous <input checked="" type="checkbox"/>	Sed. <input type="checkbox"/>	Soil <input checked="" type="checkbox"/>	Unpres. <input type="checkbox"/>	H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/>	HNO <sub>3</sub> <input type="checkbox"/>	HCl <input type="checkbox"/>	NaOH <input type="checkbox"/>	Pb(NO <sub>3</sub> ) <sub>2</sub> <input type="checkbox"/>	NH <sub>4</sub> HCO <sub>3</sub> <input type="checkbox"/>		
<i>PD - 120 - 1'</i>			<i>9/21/01</i>	<i>12:00</i>	<i>X</i>		<i>X</i>							<i>X</i>		
<i>PD - 120 - 3'</i>			<i>9/21/01</i>	<i>12:00</i>			<i>X</i>	<i>X</i>						<i>X</i>		
<i>220 / 2.</i>																
Possible Hazard Identification			Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Turn Around Time Required									QC Requirements (Specify)							
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____																
1. Relinquished By <i>[Signature]</i>			Date <b>9/21/01</b>	Time <b>16:00</b>	1. Received By <i>[Signature]</i>						Date <b>9/21/01</b>	Time <b>16:00</b>				
2. Relinquished By <i>[Signature]</i>			Date <b>9/21/01</b>	Time <b>17:30</b>	2. Received By <i>[Signature]</i>						Date <b>9/21/01</b>	Time <b>17:30</b>				
3. Relinquished By			Date	Time	3. Received By						Date	Time				

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy



STL Los Angeles  
Condition Upon Receipt Anomaly Report (CUR)



Client: Haley & Aldrich  
Lot No: EI 210360

Date/Time 9/21/01 18:00  
Initiated by: AR

Affected samples		Chain of Custody #
Client ID	Lab ID	Analyses Requested
PD-120-1	0025	Arsenic
PD-120-31	0026	"

CONDITION/ANOMALY/VARIANCE (CHECK ALL THAT APPLY):

<ul style="list-style-type: none"> <li>COOLERS           <ul style="list-style-type: none"> <li><input type="checkbox"/> Not Received, No COC</li> <li><input type="checkbox"/> Not Received but COC(s) Available</li> <li><input type="checkbox"/> Leaking</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CUSTODY SEALS (COOLER(S)/CONTAINER(S))           <ul style="list-style-type: none"> <li><input type="checkbox"/> None</li> <li><input type="checkbox"/> Not Intact</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>
<p><input checked="" type="checkbox"/> TEMPERATURE (SPECS <math>4 \pm 2^\circ\text{C}</math>)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cooler Temp(s) <u>No cooler</u></li> <li><input type="checkbox"/> Temperature Blank(s) <u>24.4^\circ\text{C}</u></li> </ul>	<ul style="list-style-type: none"> <li>CHAIN OF CUSTODY (COC)           <ul style="list-style-type: none"> <li><input type="checkbox"/> Not relinquished by Client; No date/time relinquished</li> <li><input type="checkbox"/> Incomplete information provided</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>CONTAINERS           <ul style="list-style-type: none"> <li><input type="checkbox"/> Leaking</li> <li><input type="checkbox"/> Broken</li> <li><input type="checkbox"/> Extra</li> <li><input type="checkbox"/> Without Labels</li> <li><input type="checkbox"/> VOA Vials with Headspace: _____ mm</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>CONTAINERS LABELS           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Not the same ID/info as in COC <span style="float: right;">&gt; SAMPLE = PD = 220</span></li> <li><input type="checkbox"/> Incomplete Information</li> <li><input type="checkbox"/> Preservative</li> <li><input type="checkbox"/> Collection _____ Time _____ Date</li> <li><input type="checkbox"/> Markings/Info Illegible</li> <li><input type="checkbox"/> Torn</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>SAMPLES           <ul style="list-style-type: none"> <li><input type="checkbox"/> Samples NOT RECEIVED but listed on COC</li> <li><input type="checkbox"/> Samples received but NOT LISTED on COC</li> <li><input type="checkbox"/> Logged based on Label Information</li> <li><input type="checkbox"/> Logged based on info from other samples on COC</li> <li><input type="checkbox"/> Logged according to Work Plan</li> <li><input type="checkbox"/> Logged on HOLD UNTIL FURTHER NOTICE</li> <li><input type="checkbox"/> Other: _____</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Will be noted on COC—Client to send samples with new COC</li> <li><input type="checkbox"/> Mislabeled as to tests, preservatives, etc.</li> <li><input type="checkbox"/> Holding time expired</li> <li><input type="checkbox"/> Improper container used</li> <li><input type="checkbox"/> Not preserved/Improper preservative used</li> <li><input type="checkbox"/> Improper pH _____ Lab to preserve sample and document</li> <li><input type="checkbox"/> Insufficient quantities for analysis</li> </ul>

Comments 4/24 As per sample per Training

Corrective Action Implemented:

- Client Informed: verbally on \_\_\_\_\_
- Sample(s) processed "as is."
- Sample(s) on hold until: \_\_\_\_\_

9/24/01 By: Q In writing on 9/24/01 By: Q

If released, notify: \_\_\_\_\_

Date: \_\_\_\_\_

Date: 9/24/01

Sample Control Supervisor Review:                   

Project Management Review:                   

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

000007

## EXECUTIVE SUMMARY - Detection Highlights

E1I210360

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_208_1 09/21/01 12:00 001 Arsenic	5.0	1.0	mg/kg	SW846 6010B
PD_208_3 09/21/01 12:00 002 Arsenic	5.3	1.0	mg/kg	SW846 6010B
PD_209_1 09/21/01 12:00 003 Arsenic	4.9	1.0	mg/kg	SW846 6010B
PD_209_3 09/21/01 12:00 004 Arsenic	3.9	1.0	mg/kg	SW846 6010B
PD_210_1 09/21/01 12:00 005 Arsenic	5.1	1.0	mg/kg	SW846 6010B
PD_210_3 09/21/01 12:00 006 Arsenic	3.3	1.0	mg/kg	SW846 6010B
PD_211_1 09/21/01 12:00 007 Arsenic	12.8	1.0	mg/kg	SW846 6010B
PD_211_3 09/21/01 12:00 008 Arsenic	26.4	1.0	mg/kg	SW846 6010B
PD_212_1 09/21/01 12:00 009 Arsenic	3.3	1.0	mg/kg	SW846 6010B
PD_212_3 09/21/01 12:00 010 Arsenic	2.5	1.0	mg/kg	SW846 6010B
PD_213_1 09/21/01 12:00 011 Arsenic	9.6	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000008**

## EXECUTIVE SUMMARY - Detection Highlights

ELI210360

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_213_3 09/21/01 12:00 012				
Arsenic	3.1	1.0	mg/kg	SW846 6010B
PD_214_1 09/21/01 12:00 013				
Arsenic	183	1.0	mg/kg	SW846 6010B
PD_214_3 09/21/01 12:00 014				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
PD_215_1 09/21/01 12:00 015				
Arsenic	10.9	1.0	mg/kg	SW846 6010B
PD_215_3 09/21/01 12:00 016				
Arsenic	139	1.0	mg/kg	SW846 6010B
PD_216_1 09/21/01 12:00 017				
Arsenic	8.3	1.0	mg/kg	SW846 6010B
PD_216_3 09/21/01 12:00 018				
Arsenic	3.3	1.0	mg/kg	SW846 6010B
PD_217_1 09/21/01 12:00 019				
Arsenic	10.9	1.0	mg/kg	SW846 6010B
PD_217_3 09/21/01 12:00 020				
Arsenic	3.6	1.0	mg/kg	SW846 6010B
PD_218_1 09/21/01 12:00 021				
Arsenic	11.3	1.0	mg/kg	SW846 6010B
PD_218_3 09/21/01 12:00 022				
Arsenic	2.9	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000009**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E11210360**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_219_1 09/21/01 12:00 023				
Arsenic	12.1	1.0	mg/kg	SW846 6010B
PD_219_3 09/21/01 12:00 024				
Arsenic	7.1	1.0	mg/kg	SW846 6010B
PD_220_1 09/21/01 12:00 025				
Arsenic	8.5	1.0	mg/kg	SW846 6010B
PD_220_3 09/21/01 12:00 026				
Arsenic	3.5	1.0	mg/kg	SW846 6010B

**000010**

## METHODS SUMMARY

E1I210360

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B

### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**000011**

# SAMPLE SUMMARY

EII210360

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EKXG5	001	PD_208_1	09/21/01	12:00
EKXG7	002	PD_208_3	09/21/01	12:00
EKXG8	003	PD_209_1	09/21/01	12:00
EKXG9	004	PD_209_3	09/21/01	12:00
EKXHA	005	PD_210_1	09/21/01	12:00
EKXHD	006	PD_210_3	09/21/01	12:00
EKXHE	007	PD_211_1	09/21/01	12:00
EKXHF	008	PD_211_3	09/21/01	12:00
EKXHG	009	PD_212_1	09/21/01	12:00
EKXHH	010	PD_212_3	09/21/01	12:00
EKXHJ	011	PD_213_1	09/21/01	12:00
EKXHK	012	PD_213_3	09/21/01	12:00
EKXHM	013	PD_214_1	09/21/01	12:00
EKXHP	014	PD_214_3	09/21/01	12:00
EKXHQ	015	PD_215_1	09/21/01	12:00
EKXHR	016	PD_215_3	09/21/01	12:00
EKXHT	017	PD_216_1	09/21/01	12:00
EKXHV	018	PD_216_3	09/21/01	12:00
EKXHW	019	PD_217_1	09/21/01	12:00
EKXHX	020	PD_217_3	09/21/01	12:00
EKXHO	021	PD_218_1	09/21/01	12:00
EKXH1	022	PD_218_3	09/21/01	12:00
EKXH2	023	PD_219_1	09/21/01	12:00
EKXH3	024	PD_219_3	09/21/01	12:00
EKXH4	025	PD_220_1	09/21/01	12:00
EKXH5	026	PD_220_3	09/21/01	12:00

## NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000012

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_208\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-001

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>ANALYSIS DATE</u>			<u>ANALYST ID.</u>	
Prep Batch #...: 1264512								
Arsenic	5.0	1.0	mg/kg	SW846 6010B		09/21-09/22/01	EKXG51AA	
		Dilution Factor: 1		Analysis Time..: 13:24		Analyst ID....:	021088	
		Instrument ID...: M01		MS Run #.....: 1264219		MDL.....:	0.40	

000013

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_208\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-002

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- WORK	
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Prep Batch #...:	1264512						
Arsenic	5.3	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXG71AA	
		Dilution Factor: 1		Analysis Time...: 13:59	Analyst ID....:	021088	
		Instrument ID...: M01		MS Run #.....: 1264219	MDL.....:	0.40	

000014

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_209\_1

## TOTAL Metals

Lot-Sample #....: ELI210360-003

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>ANALYSIS DATE</u>			<u>ORDER #</u>
Prep Batch #....:	1264512						
Arsenic	4.9	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXG81AA	
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1264219	MDL.....:	0.40	

000015

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_209\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-004

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...:	1264512						
Arsenic	3.9	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXG91AA	
		Dilution Factor:	1	Analysis Time..:	14:31	Analyst ID....:	021088
		Instrument ID..:	M01	MS Run #.....:	1264219	MDL.....:	0.40

000016

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_210\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-005

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1264512						
Arsenic	5.1	1.0	mg/kg	SW846 6010B	09/21~09/22/01	EKXHAIAA	
		Dilution Factor: 1		Analysis Time...: 14:37		Analyst ID....: 021088	
		Instrument ID...: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000017

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_210\_3

## TOTAL Metals

Lot-Sample #....: E1I210360-006

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- WORK	
		LIMIT	UNITS	ANALYSIS DATE		ORDER #	
Prep Batch #....:	1264512						
Arsenic	3.3	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHD1AA	
		Dilution Factor: 1		Analysis Time...: 14:44	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1264219	MDL.....:	0.40	

000018

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_211\_1

## TOTAL Metals

Lot-Sample #...: EII210360-007

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...: 1264512							
Arsenic	12.8	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHE1AA	
		Dilution Factor: 1		Analysis Time...: 14:51		Analyst ID....: 021088	
		Instrument ID...: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000019

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_211\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-008

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	METHOD			
Prep Batch #...: 1264512							
Arsenic	26.4	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHF1AA	
		Dilution Factor: 1		Analysis Time..: 15:01		Analyst ID....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000020

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_212\_1

## TOTAL Metals

Lot-Sample #....: E1I210360-009

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....: 1264512							
Arsenic	3.3	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHG1AA	
		Dilution Factor: 1		Analysis Time..: 15:12		Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000021

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_212\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-010

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1264512						
Arsenic	2.5	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHH1AA	
		Dilution Factor: 1		Analysis Time...: 15:20		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000022

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_213\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-011

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #...: 1264512</b>							
Arsenic	9.6	1.0	mg/kg	SW846 6010B		09/21-09/22/01	EKXHJ1AA
		Dilution Factor: 1		Analysis Time..: 15:28		Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000023

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_213\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-012

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...: 1264512							
Arsenic	3.1	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHK1AA	
		Dilution Factor: 1		Analysis Time.: 15:37		Analyst ID....: 021088	
		Instrument ID...: M01		MS Run #: 1264219		MDL.....: 0.40	

000024

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_214\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-013

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1264512						
Arsenic	183	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHM1AA	
		Dilution Factor: 1		Analysis Time..: 15:58		Analyst ID....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000025

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_214\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-014

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...:	1264512								
Arsenic	3.2	1.0	mg/kg		SW846 6010B			09/21-09/22/01	EKXHP1AA
		Dilution Factor: 1			Analysis Time...: 16:09				Analyst ID....: 021088
		Instrument ID...: M01			MS Run #.....: 1264219				MDL.....: 0.40

000026

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_215\_1

## TOTAL Metals

Lot-Sample #....: E1I210360-015

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....:	1264512						
Arsenic	10.9	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKKHQ1AA	
		Dilution Factor:	1	Analysis Time..:	16:15	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1264219	MDL.....:	0.40

000027

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_215\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-016

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...: 1264512									
Arsenic	139	1.0	mg/kg		SW846 6010B			09/21-09/22/01	EKXHR1AA
		Dilution Factor: 1			Analysis Time...: 16:24			Analyst ID....:	021088
		Instrument ID...: M01			MS Run #.....: 1264219			MDL.....:	0.40

000028

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_216\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-017

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1264512						
Arsenic	8.3	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHT1AA	
		Dilution Factor: 1		Analysis Time..: 16:34		Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264219		MDL.....: 0.40	

000029

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_216\_3**

**TOTAL Metals**

**Lot-Sample #....: E1I210360-018**

**Matrix.....: SOLID**

**Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30**

<b>PARAMETER</b>	<b>RESULT</b>	<b>REPORTING</b>			<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>	<b>ANALYSIS DATE</b>	<b>ORDER #</b>
		<b>LIMIT</b>	<b>UNITS</b>						
<b>Prep Batch #: 1264512</b>									
<b>Arsenic</b>	<b>3.3</b>	<b>1.0</b>	<b>mg/kg</b>		<b>SW846 6010B</b>	<b>09/21-09/22/01</b>	<b>EKXEV1AA</b>		
		Dilution Factor: 1			Analysis Time...: 16:42		Analyst ID....: 021088		
		Instrument ID..: M01			MS Run #: 1264219		MDL.....: 0.40		

**000030**

HALEY & ALDRICH INC

Client Sample ID: PD\_217\_1

TOTAL Metals

Lot-Sample #....: E1I210360-019

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....:	1264512						
Arsenic	10.9	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXHW1AA	
		Dilution Factor: 1		Analysis Time...: 16:51	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1264219	MDL.....:	0.40	

000031

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_217\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-020

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...:	1264512								
Arsenic	3.6	1.0	mg/kg		SW846 6010B			09/21-09/22/01	EKXHX1AA
		Dilution Factor: 1			Analysis Time...: 16:59			Analyst ID....:	021088
		Instrument ID...: M01			MS Run #.....: 1264219			MDL.....:	0.40

000032

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_218\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-021 Matrix.....: SOLID  
Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...:	1264513								
Arsenic	11.3	1.0	mg/kg	SW846 6010B		09/21-09/22/01	EKXH01AA		
		Dilution Factor:	1	Analysis Time..:	17:39	Analyst ID....:	021088		
		Instrument ID..:	M01	MS Run #.....:	1264221	MDL.....:	0.40		

000033

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_218\_3

## TOTAL Metals

Lot-Sample #....: E1I210360-022

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....:	1264513						
Arsenic	2.9	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXH11AA	
		Dilution Factor: 1		Analysis Time..: 18:12		Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1264221		MDL.....: 0.40	

000034

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_219\_1

## TOTAL Metals

Lot-Sample #...: E1I210360-023

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	PREPARATION- WORK	
		<u>LIMIT</u>	<u>UNITS</u>	<u>ANALYSIS DATE</u>		<u>ORDER #</u>	
Prep Batch #...: 1264513							
Arsenic	12.1	1.0	mg/kg	SW846 6010B		09/21-09/22/01	EKXH21AA
		Dilution Factor: 1		Analysis Time..: 18:19		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1264221		MDL.....: 0.40	

000035

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_219\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-024

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS					
Prep Batch #...: 1264513								
Arsenic	7.1	1.0	mg/kg	SW846 6010B		09/21-09/22/01	EKXH31AA	
		Dilution Factor: 1		Analysis Time..: 18:29		Analyst ID....:	021088	
		Instrument ID..: M01		MS Run #.....: 1264221		MDL.....:	0.40	

000036

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_220\_1

## TOTAL Metals

Lot-Sample #....: E1I210360-025

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #....:	1264513								
Arsenic	8.5	1.0	mg/kg		SW846 6010B			09/21-09/22/01	EKXH41AA
		Dilution Factor: 1			Analysis Time.: 18:37			Analyst ID.....:	021088
		Instrument ID.: M01			MS Run #: 1264221			MDL.....:	0.40

000037

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_220\_3

## TOTAL Metals

Lot-Sample #...: E1I210360-026

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...: 1264513									
Arsenic	3.5	1.0	mg/kg		SW846 6010B		09/21-09/22/01	EKXH51AA	
		Dilution Factor: 1			Analysis Time..: 18:48		Analyst ID.....:	021088	
		Instrument ID...: M01			MS Run #.....: 1264221		MDL.....:	0.40	

000038

# QC DATA ASSOCIATION SUMMARY

E1I210360

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 6010B		1264512	1264219
002	SOLID	SW846 6010B		1264512	1264219
003	SOLID	SW846 6010B		1264512	1264219
004	SOLID	SW846 6010B		1264512	1264219
005	SOLID	SW846 6010B		1264512	1264219
006	SOLID	SW846 6010B		1264512	1264219
007	SOLID	SW846 6010B		1264512	1264219
008	SOLID	SW846 6010B		1264512	1264219
009	SOLID	SW846 6010B		1264512	1264219
010	SOLID	SW846 6010B		1264512	1264219
011	SOLID	SW846 6010B		1264512	1264219
012	SOLID	SW846 6010B		1264512	1264219
013	SOLID	SW846 6010B		1264512	1264219
014	SOLID	SW846 6010B		1264512	1264219
015	SOLID	SW846 6010B		1264512	1264219
016	SOLID	SW846 6010B		1264512	1264219
017	SOLID	SW846 6010B		1264512	1264219
018	SOLID	SW846 6010B		1264512	1264219
019	SOLID	SW846 6010B		1264512	1264219
020	SOLID	SW846 6010B		1264512	1264219
021	SOLID	SW846 6010B		1264513	1264221

(Continued on next page)

**000039**

# QC DATA ASSOCIATION SUMMARY

E1I210360

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
022	SOLID	SW846 6010B		1264513	1264221
023	SOLID	SW846 6010B		1264513	1264221
024	SOLID	SW846 6010B		1264513	1264221
025	SOLID	SW846 6010B		1264513	1264221
026	SOLID	SW846 6010B		1264513	1264221

000040

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #....: E1I210360

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS				
MB Lot-Sample #:	E1I210000-512	Prep Batch #....:	1264512				
Arsenic	ND	1.0	mg/kg	SW846 6010B	Dilution Factor: 1	09/21-09/22/01	EKXJX1AA
					Analysis Time..: 13:10	Analyst ID.....: 021088	Instrument ID..: M01

MB Lot-Sample #: E1I210000-513 Prep Batch #....: 1264513

Arsenic	ND	1.0	mg/kg	SW846 6010B	09/21-09/22/01	EKXJ21AA
					Dilution Factor: 1	
					Analysis Time..: 17:07	Analyst ID.....: 021088
						Instrument ID..: M01

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000041

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: E1I210360

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	WORK ANALYSIS DATE	ORDER #
<b>LCS Lot-Sample#: E1I210000-512 Prep Batch #...: 1264512</b>							
Arsenic	200	176	mg/kg	88	SW846 6010B	09/21-09/22/01	EKKJX1AC
			Dilution Factor:	1			
			Analysis Time..:	13:16	Analyst ID.....: 021088	Instrument ID..:	M01
<b>LCS Lot-Sample#: E1I210000-513 Prep Batch #...: 1264513</b>							
Arsenic	200	181	mg/kg	90	SW846 6010B	09/21-09/22/01	EKKJ21AC
			Dilution Factor:	1			
			Analysis Time..:	17:14	Analyst ID.....: 021088	Instrument ID..:	M01

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000042

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: E1I210360

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> E1I210000-512 <b>Prep Batch #...:</b> 1264512					
Arsenic	88	(75 - 115)	SW846 6010B	09/21-09/22/01	EKXJX1AC
		Dilution Factor: 1			
		Analysis Time..: 13:16		Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1I210000-513 <b>Prep Batch #...:</b> 1264513					
Arsenic	90	(75 - 115)	SW846 6010B	09/21-09/22/01	EKXJZ1AC
		Dilution Factor: 1			
		Analysis Time..: 17:14		Analyst ID.....: 021088	Instrument ID...: M01

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000043

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: E1I210360

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	SAMPLE	SPIKE	MEASURED	PERCNT			PREPARATION-	WORK			
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD					
<b>MS Lot-Sample #:</b> E1I210360-001 <b>Prep Batch #:</b> 1264512											
<b>Arsenic</b>											
5.0	200	186	mg/kg	90	SW846	6010B	09/21-09/22/01	EKXG51AC			
5.0	200	186	mg/kg	91	0.09	SW846	6010B	09/21-09/22/01	EKXG51AD		
Dilution Factor: 1											
Analysis Time...: 13:39      Instrument ID...: M01      Analyst ID....: 021088											
MS Run #.....: 1264219											

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000044**

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: E1I210360

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	SAMPLE SPIKE MEASURED			PERCNT			PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		

MS Lot-Sample #: E1I210360-021 Prep Batch #...: 1264513

Arsenic

11.3	200	193	mg/kg	91	SW846	6010B	09/21-09/22/01	EKXH01AC	
11.3	200	189	mg/kg	89	2.0	SW846	6010B	09/21-09/22/01	EKXH01AD

Dilution Factor: 1

Analysis Time...: 17:53 Instrument ID...: M01

Analyst ID....: 021088

MS Run #.....: 1264221

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000045

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: E1I210360

Matrix.....: SOLID

Date Sampled...: 09/21/01 12:00 Date Received...: 09/21/01 17:30

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
						<u>ANALYSIS DATE</u>	<u>ORDER #</u>
<b>MS Lot-Sample #:</b> E1I210360-001 <b>Prep Batch #:</b> 1264512							
Arsenic	90	(75 - 115)		SW846 6010B		09/21-09/22/01	EKXG51AC
	91	(75 - 115) 0.09 (0-25)	0.09	SW846 6010B		09/21-09/22/01	EKXG51AD
		Dilution Factor: 1					
		Analysis Time...: 13:39		Instrument ID...: M01			Analyst ID....: 021088
		MS Run #....: 1264219					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000046

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### TOTAL Metals

Client Lot #....: E1I210360 Matrix.....: SOLID  
Date Sampled...: 09/21/01 12:00 Date Received..: 09/21/01 17:30

PARAMETER	PERCENT	RECOVERY	RPD				PREPARATION-	WORK
	RECOVERY	LIMITS	RPD	LIMITS	METHOD		ANALYSIS DATE	ORDER #
<b>MS Lot-Sample #:</b> E1I210360-021 <b>Prep Batch #:</b> 1264513								
Arsenic	91	(75 - 115)		SW846	6010B		09/21-09/22/01	EKXH01AC
	89	(75 - 115) 2.0 (0-25)		SW846	6010B		09/21-09/22/01	EKXH01AD
Dilution Factor: 1								
Analysis Time..: 17:53				Instrument ID..: M01			Analyst ID.....: 021088	
MS Run #.....: 1264221								

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000047

SEVERN  
TRENT  
SERVICES

**STL Los Angeles**  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808

August 31, 2001

Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

STL LOT NUMBER: E1H300297  
NELAP Certification Number: 01118CA  
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary  
Haley & Aldrich Inc  
9040 Friars Road  
Suite 220  
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 34 samples received under chain of custody by STL Los Angeles on August 30, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki  
Project Manager  
CC: Project File

Page 1 of 000055 total pages in this report.

**000001**

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



# Chain of Custody Record

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ACDRICK</b>			Project Manager <b>SCOTT ZACKARY</b>						Date <b>8/30/01</b>	Chain of Custody Number <b>054149</b>						
Address <b>9040 FRIARS RD SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619 - [REDACTED] 280-9210</b>						Lab Number	Page <b>1</b> of <b>3</b>						
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92103</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)									
Project Name and Location (State) <b>BOEING C6 - TOLLMANCE, CA</b>			Carrier/Waybill Number													
Contract/Purchase Order/Quote No. <b>27285 -001</b>			Matrix		Containers & Preservatives					<b>ASBESTOS</b>						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/30/01</b>	Time <b>12:00</b>	Air	Aqueous	Sed.	Soil	Unpres.		H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc/ NaOH	
PD-164-1'					X	X										X
PD-164-3'																
PD-165-1'																
PD-165-3'																
PD-166-1'																
PD-166-3'																
PD-167-1'																
PD-167-3'																
PD-168-1'																
PD-168-3'			↓	↓												
PD-169-1'			<b>8/29/01</b>	<b>17:00</b>												
PD-169-3'			↓	↓												
Possible Hazard Identification					Sample Disposal					(A fee may be assessed if samples are retained longer than 3 months)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Turn Around Time Required																
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____																
1. Relinquished By <b>TRAVIS HAMMOND</b>					Date <b>8/29/01</b>	Time <b>2:15</b>	1. Received By <b>Bruce S - 82</b>					Date <b>08/30/01</b>	Time <b>14:05</b>			
2. Relinquished By					Date	Time	2. Received By					Date	Time			
3. Relinquished By					Date	Time	3. Received By					Date	Time			
Comments																

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>						Date <b>8/30/01</b>	Chain of Custody Number <b>054150</b>					
Address <b>9040 FRIARS RD SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619-280-9210</b>						Lab Number	Page <b>2</b> of <b>3</b>					
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92103</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)				Special Instructions/ Conditions of Receipt				
Project Name and Location (State) <b>BOEING C6 - TORRANCE, CA</b>			Carrier/Waybill Number												
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix		Containers & Preservatives										
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/29/01</b>	Time <b>1200</b>	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	<b>ARSENIC</b>
<b>PD-170-1'</b>						X		X							X
<b>PD-170-3'</b>							X								
<b>PD-171-1'</b>								X							
<b>PD-171-3'</b>									X						
<b>PD-172-1'</b>										X					
<b>PD-172-3'</b>											X				
<b>PD-173-1'</b>											X				
<b>PD-173-3'</b>												X			
<b>PD-174-1'</b>												X			
<b>PD-174-3'</b>													X		
<b>PD-175-1'</b>													X		
<b>PD-175-3'</b>														X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						(A fee may be assessed if samples are retained longer than 3 months)			
Turn Around Time Required <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other: _____						QC Requirements (Specify)									
1. Relinquished By <b>TRAVIS HAMMOND</b>			Date <b>8/30/01</b>	Time <b>14:15</b>	1. Received By <b>Benson - 802</b>			Date <b>08/30/01</b>	Time <b>14:15</b>						
2. Relinquished By			Date	Time	2. Received By			Date	Time						
3. Relinquished By			Date	Time	3. Received By			Date	Time						

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>								Date <b>8/30/01</b>	Chain of Custody Number <b>054151</b>		
Address <b>9040 TRIALS RD SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619 - 280 - 9210</b>								Lab Number	Page <b>3</b> of <b>3</b>		
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92107</b>	Site Contact		Lab Contact									
Project Name and Location (State) <b>BOEING C6 - TORRANCE, CA</b>			Carrier/Waybill Number								Analysis (Attach list if more space is needed)			
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/29/01</b>	Time <b>17:00</b>	Air	Aqueous	Sed.	Soil	Unpres.	H <sub>2</sub> SO <sub>4</sub>				
<b>PD - 176 - 1'</b>					X	X								X
<b>PD - 176 - 3'</b>							1							
<b>PD - 177 - 1'</b>														
<b>PD - 177 - 3'</b>														
<b>PD - 178 - 1'</b>														
<b>PD - 178 - 3'</b>														
<b>PD - 179 - 1'</b>														
<b>PD - 179 - 3'</b>														
<b>PD - 180 - 1'</b>														
<b>PD - 180 - 3'</b>					↓	↓	↓	↓						
Possible Hazard Identification														
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					Sample Disposal					(A fee may be assessed if samples are retained longer than 3 months)				
Turn Around Time Required														
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____														
1. Relinquished By <b>TRAVIS HAMMOND</b>					Date <b>8/30/01</b>	Time <b>14:15</b>	1. Received By <b>BURGESS - SR</b>					Date <b>08/30/01</b>	Time <b>14:15</b>	
2. Relinquished By					Date	Time	2. Received By					Date	Time	
3. Relinquished By					Date	Time	3. Received By					Date	Time	
Comments														

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy



## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H300297**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_164_1 08/30/01 12:00 001				
Arsenic	21.5	1.0	mg/kg	SW846 6010B
PD_164_3 08/30/01 12:00 002				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
PD_165_1 08/30/01 12:00 003				
Arsenic	38.0	1.0	mg/kg	SW846 6010B
PD_165_3 08/30/01 12:00 004				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
PD_166_1 08/30/01 12:00 005				
Arsenic	21.7	1.0	mg/kg	SW846 6010B
PD_166_3 08/30/01 12:00 006				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_167_1 08/30/01 12:00 007				
Arsenic	11.1	1.0	mg/kg	SW846 6010B
PD_167_3 08/30/01 12:00 008				
Arsenic	31.7	1.0	mg/kg	SW846 6010B
PD_168_1 08/30/01 12:00 009				
Arsenic	9.2	1.0	mg/kg	SW846 6010B
PD_168_3 08/30/01 12:00 010				
Arsenic	6.8	1.0	mg/kg	SW846 6010B
PD_169_1 08/29/01 17:00 011				
Arsenic	4.5	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000006**

## **EXECUTIVE SUMMARY - Detection Highlights**

E1H300297

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_169_3 08/29/01 17:00 012				
Arsenic	3.9	1.0	mg/kg	SW846 6010B
PD_170_1 08/29/01 17:00 013				
Arsenic	3.6	1.0	mg/kg	SW846 6010B
PD_170_3 08/29/01 17:00 014				
Arsenic	2.8	1.0	mg/kg	SW846 6010B
PD_171_1 08/29/01 17:00 015				
Arsenic	3.6	1.0	mg/kg	SW846 6010B
PD_171_3 08/29/01 17:00 016				
Arsenic	3.8	1.0	mg/kg	SW846 6010B
PD_172_1 08/29/01 17:00 017				
Arsenic	39.4	1.0	mg/kg	SW846 6010B
PD_172_3 08/29/01 17:00 018				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
PD_173_1 08/29/01 17:00 019				
Arsenic	6.3	1.0	mg/kg	SW846 6010B
PD_173_3 08/29/01 17:00 020				
Arsenic	9.8	1.0	mg/kg	SW846 6010B
PD_174_1 08/29/01 17:00 021				
Arsenic	10	1.0	mg/kg	SW846 6010B
PD_174_3 08/29/01 17:00 022				
Arsenic	4.8	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000007**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H300297**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_175_1 08/29/01 17:00 023				
Arsenic	8.2	1.0	mg/kg	SW846 6010B
PD_175_3 08/29/01 17:00 024				
Arsenic	4.8	1.0	mg/kg	SW846 6010B
PD_176_1 08/29/01 17:00 025				
Arsenic	5.3	1.0	mg/kg	SW846 6010B
PD_176_3 08/29/01 17:00 026				
Arsenic	3.7	1.0	mg/kg	SW846 6010B
PD_177_1 08/29/01 17:00 027				
Arsenic	36.1	1.0	mg/kg	SW846 6010B
PD_177_3 08/29/01 17:00 028				
Arsenic	3.7	1.0	mg/kg	SW846 6010B
PD_178_1 08/29/01 17:00 029				
Arsenic	31.0	1.0	mg/kg	SW846 6010B
PD_178_3 08/29/01 17:00 030				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
PD_179_1 08/29/01 17:00 031				
Arsenic	31.6	1.0	mg/kg	SW846 6010B
PD_179_3 08/29/01 17:00 032				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
PD_180_1 08/29/01 17:00 033				
Arsenic	26.5	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000008**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H300297**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_180_3 08/29/01 17:00 034</b>				
Arsenic	43.5	1.0	mg/kg	SW846 6010B

**000009**

## METHODS SUMMARY

E1H300297

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B

### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**000010**

# SAMPLE SUMMARY

E1H300297

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EJVG C	001	PD_164_1'	08/30/01	12:00
EJVG G	002	PD_164_3	08/30/01	12:00
EJVG H	003	PD_165_1	08/30/01	12:00
EJVG J	004	PD_165_3	08/30/01	12:00
EJVG L	005	PD_166_1	08/30/01	12:00
EJVG Q	006	PD_166_3	08/30/01	12:00
EJVG R	007	PD_167_1	08/30/01	12:00
EJVG W	008	PD_167_3	08/30/01	12:00
EJVG O	009	PD_168_1	08/30/01	12:00
EJVG 1	010	PD_168_3	08/30/01	12:00
EJVG 3	011	PD_169_1	08/29/01	17:00
EJVG 8	012	PD_169_3	08/29/01	17:00
EJV H A	013	PD_170_1	08/29/01	17:00
EJV H C	014	PD_170_3	08/29/01	17:00
EJV H F	015	PD_171_1	08/29/01	17:00
EJV H H	016	PD_171_3	08/29/01	17:00
EJV H J	017	PD_172_1	08/29/01	17:00
EJV H L	018	PD_172_3	08/29/01	17:00
EJV H M	019	PD_173_1	08/29/01	17:00
EJV H P	020	PD_173_3	08/29/01	17:00
EJV H Q	021	PD_174_1	08/29/01	17:00
EJV H R	022	PD_174_3	08/29/01	17:00
EJV H T	023	PD_175_1	08/29/01	17:00
EJV H V	024	PD_175_3	08/29/01	17:00
EJV H X	025	PD_176_1	08/29/01	17:00
EJV H 1	026	PD_176_3	08/29/01	17:00
EJV H 2	027	PD_177_1	08/29/01	17:00
EJV H 4	028	PD_177_3	08/29/01	17:00
EJV H 5	029	PD_178_1	08/29/01	17:00
EJV H 6	030	PD_178_3	08/29/01	17:00
EJV H 7	031	PD_179_1	08/29/01	17:00
EJV H 8	032	PD_179_3	08/29/01	17:00
EJV J C	033	PD_180_1	08/29/01	17:00
EJV J D	034	PD_180_3	08/29/01	17:00

(Continued on next page)

000011

## SAMPLE SUMMARY

E1H300297

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
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### NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000012

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_164\_1'

## TOTAL Metals

Lot-Sample #...: E1H300297-001

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1242453							
Arsenic	21.5	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVGC1AA
		Dilution Factor: 1			Analysis Time...: 12:52		Analyst ID.....:	021088
		Instrument ID...: M01			MS Run #.....: 1242236		MDL.....:	0.40

000013

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_164\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-002

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242453					
Arsenic	2.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGG1AA
		Dilution Factor:	1	Analysis Time...:	13:27	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000014

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_165\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-003

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1242453							
Arsenic	38.0	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVGH1AA
		Dilution Factor:	1	Analysis Time...:	13:35	Analyst ID....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....:	0.40	

000015

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_165\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-004

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242453					
Arsenic	2.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGJ1AA
		Dilution Factor:	1	Analysis Time...:	13:58	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000016

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_166\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-005

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242453					
Arsenic	21.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGL1AA
		Dilution Factor:	1	Analysis Time...:	14:06	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000017

HALEY & ALDRICH INC

Client Sample ID: PD\_166\_3

TOTAL Metals

Lot-Sample #...: E1H300297-006

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242453					
Arsenic	4.5	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGQ1AA
		Dilution Factor:	1	Analysis Time...:	14:15	Analyst ID....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000018

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_167\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-007

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
Prep Batch #...:	1242453						
Arsenic	11.1	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGR1AA	
		Dilution Factor:	1	Analysis Time...:	14:23	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....:	0.40

000019

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_167\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-008

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1242453</b>						
Arsenic	31.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVGW1AA
		Dilution Factor: 1		Analysis Time...: 14:31	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1242236	MDL.....:	0.40

000020

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_168\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-009

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #....:	1242453					
Arsenic	9.2	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVG01AA
		Dilution Factor:	1	Analysis Time...:	14:40	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000021

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_168\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-010

Matrix.....: SOLID

Date Sampled...: 08/30/01 12:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1242453							
Arsenic	6.8	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVG11AA
		Dilution Factor:	1	Analysis Time...:	00:00	Analyst ID....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....:	0.40	

000022

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_169\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-011

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242453					
Arsenic	4.5	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVG31AA
		Dilution Factor:	1	Analysis Time...:	14:56	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000023

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_169\_3

**TOTAL Metals**

Lot-Sample #...: E1H300297-012

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS		ANALYSIS DATE		
<b>Prep Batch #...: 1242453</b>							
Arsenic	3.9	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVG81AA	
		Dilution Factor:	1	Analysis Time...: 15:07	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1242236	MDL.....:	0.40	

**000024**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_170\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-013

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS		ANALYSIS DATE		
<b>Prep Batch #....: 1242453</b>							
Arsenic	3.6	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHA1AA	
		Dilution Factor: 1		Analysis Time...: 15:15	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1242236	MDL.....:	0.40	

000025

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_170\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-014

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1242453							
Arsenic	2.8	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVHC1AA
		Dilution Factor:	1		Analysis Time...:	15:38	Analyst ID....:	021088
		Instrument ID...:	M01		MS Run #.....:	1242236	MDL.....:	0.40

000026

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_171\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-015

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
<b>Prep Batch #...: 1242453</b>								
Arsenic	3.6	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHF1AA		
		Dilution Factor: 1		Analysis Time...: 15:46	Analyst ID.....:	021088		
		Instrument ID...: M01		MS Run #.....: 1242236	MDL.....:	0.40		

000027

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_171\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-016

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS		ANALYSIS DATE		
<b>Prep Batch #...: 1242453</b>							
Arsenic	3.8	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHH1AA	
		Dilution Factor: 1		Analysis Time..: 15:55	Analyst ID.....:	021088	
		Instrument ID..: M01		MS Run #.....: 1242236	MDL.....:	0.40	

000028

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_172\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-017

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....: 1242453								
Arsenic	39.4	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVHJ1AA
		Dilution Factor: 1		Analysis Time..: 16:03		Analyst ID.....: 021088		
		Instrument ID.: M01		MS Run #.....: 1242236		MDL.....: 0.40		

000029

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_172\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-018

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1242453							
Arsenic	4.1	1.0	mg/kg	SW846 6010B			08/30-08/31/01	EJVHL1AA
		Dilution Factor:	1	Analysis Time..:	16:11	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1242236	MDL.....:	0.40	

000030

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_173\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-019

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1242453					
Arsenic	6.3	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHM1AA
		Dilution Factor:	1	Analysis Time...:	16:20	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....: 0.40

000031

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_173\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-020

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
Prep Batch #...:	1242453						
Arsenic	9.8	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHP1AA	
		Dilution Factor:	1	Analysis Time...:	16:28	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1242236	MDL.....:	0.40

000032

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_174\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-021

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...:	1242455					
Arsenic	10	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHQ1AA
		Dilution Factor:	1	Analysis Time..:	16:51	Analyst ID....: 021088
		Instrument ID..:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000033

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_174\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-022

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1242455</b>						
Arsenic	4.8	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHR1AA
		Dilution Factor: 1		Analysis Time...: 17:43	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1242237	MDL.....:	0.40

000034

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_175\_1

**TOTAL Metals**

Lot-Sample #...: E1H300297-023

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE		
<b>Prep Batch #...: 1242455</b>							
Arsenic	8.2	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHT1AA	
		Dilution Factor:	1	Analysis Time...: 17:51	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1242237	MDL.....:	0.40	

**000035**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_175\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-024

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...:	1242455					
Arsenic	4.8	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHV1AA
		Dilution Factor:	1	Analysis Time..:	18:00	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000036

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_176\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-025

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1242455					
Arsenic	5.3	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVHX1AA
		Dilution Factor:	1	Analysis Time...:	18:08	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000037

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_176\_3

## TOTAL Metals

Lot-Sample #....: E1H300297-026

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #....:	1242455					
Arsenic	3.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVH11AA
		Dilution Factor: 1		Analysis Time...: 18:16	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1242237	MDL.....:	0.40

000038

HALEY & ALDRICH INC

Client Sample ID: PD\_177\_1

TOTAL Metals

Lot-Sample #....: E1H300297-027

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242455					
Arsenic	36.1	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJRH21AA
		Dilution Factor:	1	Analysis Time...:	18:25	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000039

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_177\_3

## TOTAL Metals

Lot-Sample #....: E1H300297-028

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1242455					
Arsenic	3.7	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJRH41AA
		Dilution Factor: 1		Analysis Time...: 18:33	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1242237	MDL.....:	0.40

000040

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_178\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-029

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1242455					
Arsenic	31.0	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVH51AA
		Dilution Factor:	1	Analysis Time...:	18:56	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000041

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_178\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-030 Matrix.....: SOLID  
Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1242455						
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVH61AA	
		Dilution Factor:	1	Analysis Time..:	19:04	Analyst ID....:	021088
		Instrument ID..:	M01	MS Run #.....:	1242237	MDL.....:	0.40

000042

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_179\_1

## TOTAL Metals

Lot-Sample #...: E1H300297-031

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...:	1242455					
Arsenic	31.6	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVH71AA
		Dilution Factor:	1	Analysis Time...:	19:13	Analyst ID....:
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....:
						0.40

000043

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_179\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-032

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...:	1242455					
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJRH81AA
		Dilution Factor:	1	Analysis Time..:	19:21	Analyst ID....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000044

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_180\_1

## TOTAL Metals

Lot-Sample #....: E1H300297-033

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-	WORK
					ANALYSIS DATE	ORDER #
Prep Batch #....:	1242455					
Arsenic	26.5	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVJC1AA
		Dilution Factor:	1	Analysis Time...:	19:29	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000045

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_180\_3

## TOTAL Metals

Lot-Sample #...: E1H300297-034

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...:	1242455					
Arsenic	43.5	1.0	mg/kg	SW846 6010B	08/30-08/31/01	EJVJD1AA
		Dilution Factor:	1	Analysis Time...:	19:38	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1242237	MDL.....: 0.40

000046

# QC DATA ASSOCIATION SUMMARY

E1H300297

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 6010B		1242453	1242236
002	SOLID	SW846 6010B		1242453	1242236
003	SOLID	SW846 6010B		1242453	1242236
004	SOLID	SW846 6010B		1242453	1242236
005	SOLID	SW846 6010B		1242453	1242236
006	SOLID	SW846 6010B		1242453	1242236
007	SOLID	SW846 6010B		1242453	1242236
008	SOLID	SW846 6010B		1242453	1242236
009	SOLID	SW846 6010B		1242453	1242236
010	SOLID	SW846 6010B		1242453	1242236
011	SOLID	SW846 6010B		1242453	1242236
012	SOLID	SW846 6010B		1242453	1242236
013	SOLID	SW846 6010B		1242453	1242236
014	SOLID	SW846 6010B		1242453	1242236
015	SOLID	SW846 6010B		1242453	1242236
016	SOLID	SW846 6010B		1242453	1242236
017	SOLID	SW846 6010B		1242453	1242236
018	SOLID	SW846 6010B		1242453	1242236
019	SOLID	SW846 6010B		1242453	1242236
020	SOLID	SW846 6010B		1242453	1242236
021	SOLID	SW846 6010B		1242455	1242237

(Continued on next page)

000047

# QC DATA ASSOCIATION SUMMARY

E1H300297

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
022	SOLID	SW846 6010B		1242455	1242237
023	SOLID	SW846 6010B		1242455	1242237
024	SOLID	SW846 6010B		1242455	1242237
025	SOLID	SW846 6010B		1242455	1242237
026	SOLID	SW846 6010B		1242455	1242237
027	SOLID	SW846 6010B		1242455	1242237
028	SOLID	SW846 6010B		1242455	1242237
029	SOLID	SW846 6010B		1242455	1242237
030	SOLID	SW846 6010B		1242455	1242237
031	SOLID	SW846 6010B		1242455	1242237
032	SOLID	SW846 6010B		1242455	1242237
033	SOLID	SW846 6010B		1242455	1242237
034	SOLID	SW846 6010B		1242455	1242237

000048

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1H300297

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>MB Lot-Sample #:</b> E1H300000-453 <b>Prep Batch #:</b> 1242453							
Arsenic	ND	1.0	mg/kg	SW846 6010B	Dilution Factor: 1	08/30-08/31/01	EJVJJ1AA
					Analysis Time...: 12:37	Analyst ID.....: 021088	Instrument ID...: M01

**MB Lot-Sample #:** E1H300000-455 **Prep Batch #:** 1242455

Arsenic	ND	1.0	mg/kg	SW846 6010B	Dilution Factor: 1	08/30-08/31/01	EJVJQ1AA
					Analysis Time...: 16:36	Analyst ID.....: 021088	Instrument ID...: M01

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000049

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1H300297

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	WORK ANALYSIS DATE	ORDER #
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LCS Lot-Sample#: E1H300000-453 Prep Batch #...: 1242453  
Arsenic 200 191 mg/kg 95 SW846 6010B 08/30-08/31/01 EJVJJ1AC  
Dilution Factor: 1  
Analysis Time...: 12:43 Analyst ID.....: 021088 Instrument ID...: M01

LCS Lot-Sample#: E1H300000-455 Prep Batch #...: 1242455  
Arsenic 200 201 mg/kg 101 SW846 6010B 08/30-08/31/01 EJVJQ1AC  
Dilution Factor: 1  
Analysis Time...: 16:43 Analyst ID.....: 021088 Instrument ID...: M01

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000050

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H300297

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY</u>	<u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> E1H300000-453 <b>Prep Batch #....:</b> 1242453							
Arsenic	95	(75 - 115)	SW846 6010B		08/30-08/31/01	EJVJJ1AC	
		Dilution Factor:	1				
		Analysis Time...:	12:43	Analyst ID.....:	021088	Instrument ID...:	M01
<b>LCS Lot-Sample#:</b> E1H300000-455 <b>Prep Batch #....:</b> 1242455							
Arsenic	101	(75 - 115)	SW846 6010B		08/30-08/31/01	EJVJQ1AC	
		Dilution Factor:	1				
		Analysis Time...:	16:43	Analyst ID.....:	021088	Instrument ID...:	M01

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000051

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1H300297

**Matrix.....:** SOLID

**Date Sampled....:** 08/30/01 12:00 **Date Received...:** 08/30/01 14:15

<b>PARAMETER</b>	<b>SAMPLE AMOUNT</b>	<b>SPIKE AMT</b>	<b>MEASURED AMOUNT</b>	<b>UNITS</b>	<b>PERCNT RECVRY</b>	<b>RPD</b>	<b>METHOD</b>	<b>PREPARATION- ANALYSIS DATE</b>	<b>WORK ORDER #</b>
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**MS Lot-Sample #:** E1H300297-001 **Prep Batch #....:** 1242453

**Arsenic**

21.5	200	214	mg/kg	96	SW846	6010B	08/30-08/31/01	EJVGC1AC	
21.5	200	215	mg/kg	97	0.48	SW846	6010B	08/30-08/31/01	EJVGC1AD

Dilution Factor: 1

Analysis Time...: 13:08 Instrument ID...: M01

MS Run #.....: 1242236

Analyst ID.....: 021088

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000052**

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H300297

Matrix.....: SOLID

Date Sampled....: 08/29/01 17:00 Date Received...: 08/30/01 14:15

PARAMETER	SAMPLE	SPIKE	MEASURED	PERCNT			PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		

MS Lot-Sample #: E1H300297-021 Prep Batch #....: 1242455

Arsenic

10	200	196	mg/kg	93	SW846	6010B	08/30-08/31/01	EJVHQ1AC	
10	200	159 N	mg/kg	74	21	SW846	6010B	08/30-08/31/01	EJVHQ1AD

Dilution Factor: 1

Analysis Time...: 17:22 Instrument ID...: M01 Analyst ID.....: 021088

MS Run #.....: 1242237

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

000053

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H300297

Matrix.....: SOLID

Date Sampled....: 08/30/01 12:00 Date Received...: 08/30/01 14:15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H300297-001 <b>Prep Batch #:</b> 1242453							
Arsenic	96	(75 - 115)		SW846	6010B	08/30-08/31/01	EJVGC1AC
	97	(75 - 115)	0.48 (0-25)	SW846	6010B	08/30-08/31/01	EJVGC1AD
			Dilution Factor:	1			
			Analysis Time...:	13:08	Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....:	1242236			

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000054

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H300297

Matrix.....: SOLID

Date Sampled...: 08/29/01 17:00 Date Received..: 08/30/01 14:15

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #:</b> E1H300297-021 <b>Prep Batch #:</b> 1242455							
Arsenic	93	(75 - 115)		SW846 6010B		08/30-08/31/01 EJVHQ1AC	
	74 N	(75 - 115) 21	(0-25)	SW846 6010B		08/30-08/31/01 EJVHQ1AD	
Dilution Factor: 1							
Analysis Time...: 17:22 Instrument ID...: M01 Analyst ID.....: 021088							
MS Run #.....: 1242237							

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

000055

**S E V E R N**  
**T R E N T**  
**S E R V I C E S**

**STL Los Angeles**  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808

August 24, 2001

Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

STL LOT NUMBER: E1H110128  
NELAC Certification Number: 01118CA  
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary  
Haley & Aldrich Inc  
9040 Friars Road  
Suite 220  
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 80 samples received under chain of custody by STL Los Angeles on August 11, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki  
Project Manager  
CC: Project File

This report contains 000116 pages.

**000001**

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



**Chain of  
Custody Record**

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>						Date <b>8/10/01</b>	Chain of Custody Number <b>054155</b>					
Address <b>9040 FRIARS RD, SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619 - 280 - 9210</b>						Lab Number	Page <b>1</b> of <b>7</b>					
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92103</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)								
Project Name and Location (State) <b>BOEING C6 - TERRANCE, CA</b>			Carrier/Waybill Number						Special Instructions/ Conditions of Receipt						
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix		Containers & Preservatives										
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/9/01</b>	Time <b>3PM</b>	Air	Aqueous	Soil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc/ NaOH	<b>ARSENIC</b>	
PD-46-1'						X	X							X	
PD-46-3'														1	
PD-47-1'															
PD-47-3'															
PD-48-1'															
PD-48-3'															
PD-49-1'															
PD-49-3'															
PD-58-1'															
PD-58-3'															
PD-59-1'															
PD-59-3'			▼	▼			▼	▼						▼	
Possible Hazard Identification						Sample Disposal									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months   (A fee may be assessed if samples are retained longer than 3 months)									
Turn Around Time Required															
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <b>TRAVIS HAMMOND</b>						Date <b>8/10/01</b>	Time <b>7:50</b>	1. Received By <b>Pacoeta</b>						Date <b>8/10/01</b>	Time <b>19:50</b>
2. Relinquished By						Date	Time	2. Received By						Date	Time
3. Relinquished By						Date	Time	3. Received By						Date	Time
Comments															

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

# Chain of Custody Record

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>			Date <b>8/10/01</b>	Chain of Custody Number <b>054156</b>								
Address <b>9040 FRIARS RD SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619-280-9210</b>			Lab Number	Page <b>2</b> of <b>7</b>								
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92108</b>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)										
Project Name and Location (State) <b>BOEING C6 - TORRANCE, CA</b>			Carrier/Waybill Number			<i>ASCEMC</i>									
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix						Containers & Preservatives						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/9/01</b>	Time <b>3pm</b>	Air <input checked="" type="checkbox"/>	Aqueous <input type="checkbox"/>	Soil <input checked="" type="checkbox"/>	Unpres. <input type="checkbox"/>	H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/>	HNO <sub>3</sub> <input type="checkbox"/>	HCl <input type="checkbox"/>	NaOH <input type="checkbox"/>	ZnAc/ NaOH <input type="checkbox"/>		
<b>PD-45-1'</b>							X	X							
<b>PD-45-3'</b>															
<b>PD-60-1'</b>															
<b>PD-60-3'</b>															
<b>PD-61-1'</b>															
<b>PD-61-3'</b>															
<b>PD-62-1'</b>															
<b>PD-62-3'</b>															
<b>PD-63-1'</b>															
<b>PD-63-3'</b>															
<b>PD-65-1'</b>															
<b>PD-65-3'</b>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							
Possible Hazard Identification						Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required						QC Requirements (Specify)									
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other															
1. Relinquished By <b>TRAVIS HAMMOND</b>			Date <b>8/10/01</b>	Time <b>19:50</b>	1. Received By <b>RECEIVED</b>			Date <b>8/10/01</b>	Time <b>19:50</b>						
2. Relinquished By			Date	Time	2. Received By			Date	Time						
3. Relinquished By			Date	Time	3. Received By			Date	Time						
Comments															

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

Client <i>Haley &amp; Aldrich</i>			Project Manager <i>SCOTT ZACHARY</i>						Date <i>8/10/01</i>	Chain of Custody Number <i>054157</i>						
Address <i>9040 Friars Rd Suite 220</i>			Telephone Number (Area Code)/Fax Number <i>619-280-9210</i>						Lab Number							
City <i>San Diego</i>	State <i>CA</i>	Zip Code <i>92108</i>	Site Contact		Lab Contact				Analysis (Attach list if more space is needed)				Page <i>3</i> of <i>7</i>			
Project Name and Location (State) <i>Boeing C-6 Torrance, CA</i>			Carrier/Waybill Number													
Contract/Purchase Order/Quote No.			Matrix		Containers & Preservatives								Special Instructions/ Conditions of Receipt			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <i>8/9/01</i>	Time <i>3pm</i>	Air	Aqueous	Sed.	Soil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc/ NaOH		
<i>PD-66-1</i>															<i>Assecur</i>	
<i>PD-66-3</i>																
<i>PD-67-1</i>																
<i>PD-67-3</i>																
<i>PD-68-1</i>																
<i>PD-68-3</i>																
<i>PD-69-1</i>																
<i>PD-69-3</i>																
<i>PD-83-1</i>																
<i>PD-83-3</i>																
<i>PD-84-1</i>																
<i>PD-84-3</i>																
Possible Hazard Identification			Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Turn Around Time Required											QC Requirements (Specify)					
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____																
1. Relinquished By <i>TRAVIS HAMMOND</i>			Date <i>8/10/01</i>	Time <i>19:50</i>	1. Received By <i>Pacoeta</i>			Date <i>8/10/01</i>	Time <i>19:50</i>							
2. Relinquished By			Date	Time	2. Received By			Date	Time							
3. Relinquished By			Date	Time	3. Received By			Date	Time							
Comments																

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client <i>Haley &amp; Baldwin</i>			Project Manager <i>Scott Zachary</i>			Date <i>8/10/01</i>	Chain of Custody Number <i>054158</i>								
Address <i>9040 Evans Rd. Suite 220</i>			Telephone Number (Area Code)/Fax Number <i>619-280-9210</i>			Lab Number	Page <i>4</i> of <i>7</i>								
City <i>San Diego</i>	State <i>CA</i>	Zip Code <i>92108</i>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)										
Project Name and Location (State) <i>Boeing C-6 Torrance, CA</i>			Carrier/Waybill Number			<i>Boatrace</i>									
Contract/Purchase Order/Quote No. <i>27285-001</i>			Matrix												
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air <input type="checkbox"/>	Aqueous <input type="checkbox"/>	Sed. <input type="checkbox"/>	Soil <input type="checkbox"/>	Unpres. <input type="checkbox"/>	H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/>	HNO <sub>3</sub> <input type="checkbox"/>	HCl <input type="checkbox"/>	NaOH <input type="checkbox"/>	ZnAc <sub>2</sub> <input type="checkbox"/>	NaOH <input type="checkbox"/>
<i>PD-85-1</i>			<i>8/9/01</i>	<i>3 pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>
<i>PD-85-3</i>															<input checked="" type="checkbox"/>
<i>PD-86-1</i>															
<i>PD-86-3</i>															
<i>PD-87-1</i>															
<i>PD-87-3</i>															
<i>PD-88-1</i>															
<i>PD-88-3</i>															
<i>PD-89-1</i>															
<i>PD-89-3</i>															
<i>PD-90-1</i>															
<i>PD-90-3</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Possible Hazard Identification			Sample Disposal												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months <small>(A fee may be assessed if samples are retained longer than 3 months)</small>												
Turn Around Time Required															
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
QC Requirements (Specify)															
1. Relinquished By <i>TRAVIS HAMMOND</i>			Date <i>8/10/01</i>	Time <i>19:50</i>	1. Received By <i>Recealter</i>			Date <i>8/10/01</i>	Time <i>19:50</i>						
2. Relinquished By			Date	Time	2. Received By			Date	Time						
3. Relinquished By			Date	Time	3. Received By			Date	Time						
Comments															

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

## ***Chain of Custody Record***

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

Severn Trent Laboratories, Inc.

Client <i>Haley &amp; Aldrich</i>			Project Manager <i>Scott Zachary</i>	Date 8/10/01	Chain of Custody Number 054163											
Address 9040 Friars Rd Suite 220			Telephone Number (Area Code)/Fax Number 619-280-9210	Lab Number	Page 5 of 7											
City <i>San Diego</i>	State <i>CA</i>	Zip Code <i>92108</i>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)											
Project Name and Location (State) <i>Boeing C-6 Tornau, CA</i>			Carrier/Waybill Number													
Contract/Purchase Order/Quote No. 27285 - 001																
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Matrix		Containers & Preservatives		Special Instructions/ Conditions of Receipt <i>Preservic</i>									
PD - 91-1			Date 8/9/01	Time 3pm	Air	Aqueous		Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc NaOH	
PD - 91-3					X			X								
PD - 92-1																
PD - 92-3																
PD - 93-1																
PD - 93-3																
PD - 94-1																
PD - 94-3																
PD - 95-1																
PD - 95-3																
PD - 96-1																
PD - 96-3																
Possible Hazard Identification						Sample Disposal										
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)								
Turn Around Time Required																
<input type="checkbox"/> 24 Hours	<input checked="" type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input type="checkbox"/> Other _____	QC Requirements (Specify)										
1. Relinquished By <i>TRAVIS HAMMORP</i>						Date 8/10/01	Time 19:50	1. Received By <i>Receivc</i>								
2. Relinquished By						Date	Time	2. Received By								
3. Relinquished By						Date	Time	3. Received By								

**DISTRIBUTION:** WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

Client <i>Haley &amp; Aldrich</i>			Project Manager <i>Scott Dackery</i>			Date <i>8/10/01</i>	Chain of Custody Number <i>054164</i>		
Address <i>9040 Friar Rd Suite 220</i>			Telephone Number (Area Code)/Fax Number <i>619-280-9210</i>			Lab Number			
City <i>San Diego</i> State <i>CA</i> Zip Code <i>92108</i>			Site Contact			Lab Contact			
Project Name and Location (State) <i>Boeing C-6 Torrance, CA</i>			Carrier/Waybill Number			Analysis (Attach list if more space is needed)			
Contract/Purchase Order/Quote No. <i>2728T-001</i>			Matrix			Containers & Preservatives			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air Aqueous Sed.	Soil Unpres. H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH ZnAc/H <sub>2</sub> O			
<i>PD-97-1</i>			<i>8/10/01</i>	<i>2:00pm</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-97-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-98-1</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-98-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-99-1</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-99-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-100-1</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-100-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-101-1</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-101-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-102-1</i>					<i>X</i>	<i>X</i>	<i>X</i>		
<i>PD-102-3</i>					<i>X</i>	<i>X</i>	<i>X</i>		
Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Turn Around Time Required			QC Requirements (Specify)						
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other									
1. Relinquished By <i>TRAVIS HAMMOND</i>			Date <i>8/10/01</i>	Time <i>20:30</i>	1. Received By <i>Recoek</i>			Date <i>8/10/01</i>	Time <i>20:30</i>
2. Relinquished By			Date	Time	2. Received By			Date	Time
3. Relinquished By			Date	Time	3. Received By			Date	Time
Comments									

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

STL-4124 (0700)

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

Client <i>Haley &amp; Aldrich</i>			Project Manager <i>Scott Zachary</i>			Date <i>8/10/01</i>	Chain of Custody Number <i>054165</i>							
Address <i>9080 Friars Rd Suite 220</i>			Telephone Number (Area Code)/Fax Number <i>619-280-9210</i>			Lab Number	Page <i>7</i> of <i>7</i>							
City <i>San Diego</i>	State <i>CA</i>	Zip Code <i>92108</i>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)									
Project Name and Location (State) <i>Boeing C-6, Tijuana, CA</i>			Carrier/Waybill Number											
Contract/Purchase Order/Quote No. <i>27285-001</i>			Matrix	Containers & Preservatives	<i>Boeing</i>									
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Air	Aqueous Sed.				Soil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc/ NaOH
PD-103-1	8/10/01	2:00pm		X		X								
PD-103-3														
PD-104-1														
PD-104-3														
PD-105-1														
PD-105-3														
PD-106-1														
PD-106-3			↓	↓	↓	↓								
Special Instructions/Conditions of Receipt														
Possible Hazard Identification														
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								(A fee may be assessed if samples are retained longer than 3 months)	
Turn Around Time Required														
<input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____					QC Requirements (Specify)									
1. Relinquished By <i>TRANS HAMMOND</i>					Date <i>8/10/01</i>	Time <i>20:30</i>	1. Received By <i>Recoleffle</i>					Date <i>8/10/01</i>	Time <i>20:30</i>	
2. Relinquished By					Date	Time	2. Received By					Date	Time	
3. Relinquished By					Date	Time	3. Received By					Date	Time	
Comments														

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**STL LOS ANGELES  
PROJECT RECEIPT CHECKLIST**

Quantums Lot #: E1H 110128  
Client Name: Haley & Aldrich  
Received by: Pecocchia  
Delivered by :  Client  Airborne  Fed  
 UPS  DES  Other

Date: 8/10/01

Quote #: 42295  
Project: Boeing C-6  
Date/Time Received: 8/10/01 19:50  
 DHL  Ultra-Ex  Rev B.

Initial / Date

Custody Seal Status:	<input type="checkbox"/> Intact	<input type="checkbox"/> Broken	<input checked="" type="checkbox"/> None .....	JR 8/10/01
Custody Seal #s:	<input checked="" type="checkbox"/> No Seal # .....			
Sample Container(s):	<input checked="" type="checkbox"/> STL-LA	<input type="checkbox"/> Client	<input type="checkbox"/> N/A .....	
Temperature(s) (COOLER/BLANK) in °C:	5.2° (CORRECTED TEMP)			
Thermometer Used :	<input checked="" type="checkbox"/> IR (Infra-red)	<input type="checkbox"/> Digital (Probe) .....		
Samples:	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Broken	<input type="checkbox"/> Other .....	
Anomalies:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes (See Clouseau) .....		
Labeled by	JR			
Labeling checked by				
Turn Around Time:	<input type="checkbox"/> RUSH-24HR	<input checked="" type="checkbox"/> RUSH-48HR	<input type="checkbox"/> RUSH-72HR	<input type="checkbox"/> NORMAL .....
Short-Hold Notification:	<input type="checkbox"/> Ph	<input type="checkbox"/> Wet Chem	<input type="checkbox"/> Metals (Filter/Pres)	<input checked="" type="checkbox"/> Encore
Outside Analysis(es) (Test/Lab/Date Sent Out) :	None			

\*\*\*\*\* LEAVE NO BLANK SPACES : USE NVA \*\*\*\*\*

**Reagents**

HCl	an-NaOH	Zn Acetate	an-H2SO4	a-HNO3	a-HNO3-Field Sterile	a/HNO3-Lab Sterile
CGI Clear Glass Jar	CGI-Clear Glass Bottle	AGI-Amber Glass Jar	AGI-Amber Glass Bottle	PB: Poly Bottle	E-Screw Sampler	V-VOA

\* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pacelip 8/11/01

REVIEWED BY/DATE: T Stewart 8-13-01

000009

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_46_1 08/09/01 15:00 001				
Arsenic	5.4	1.0	mg/kg	SW846 6010B
PD_46_3 08/09/01 15:00 002				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_47_1 08/09/01 15:00 003				
Arsenic	264	1.0	mg/kg	SW846 6010B
PD_47_3 08/09/01 15:00 004				
Arsenic	3.9	1.0	mg/kg	SW846 6010B
PD_48_1 08/09/01 15:00 005				
Arsenic	5.3	1.0	mg/kg	SW846 6010B
PD_48_3 08/09/01 15:00 006				
Arsenic	13.0	1.0	mg/kg	SW846 6010B
PD_49_1 08/09/01 15:00 007				
Arsenic	28.6	1.0	mg/kg	SW846 6010B
PD_49_3 08/09/01 15:00 008				
Arsenic	46.7	1.0	mg/kg	SW846 6010B
PD_58_1 08/09/01 15:00 009				
Arsenic	10.1	1.0	mg/kg	SW846 6010B
PD_58_3 08/09/01 15:00 010				
Arsenic	2.4	1.0	mg/kg	SW846 6010B
PD_59_1 08/09/01 15:00 011				
Arsenic	9.3	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000010**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_59_3 08/09/01 15:00 012</b>				
Arsenic	3.1	1.0	mg/kg	SW846 6010B
<b>PD_45_1 08/09/01 15:00 013</b>				
Arsenic	7.7	1.0	mg/kg	SW846 6010B
<b>PD_45_3 08/09/01 15:00 014</b>				
Arsenic	3.9	1.0	mg/kg	SW846 6010B
<b>PD_60_1 08/09/01 15:00 015</b>				
Arsenic	11.7	1.0	mg/kg	SW846 6010B
<b>PD_60_3 08/09/01 15:00 016</b>				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
<b>PD_61_1 08/09/01 15:00 017</b>				
Arsenic	232	1.0	mg/kg	SW846 6010B
<b>PD_61_3 08/09/01 15:00 018</b>				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
<b>PD_62_1 08/09/01 15:00 019</b>				
Arsenic	5.0	1.0	mg/kg	SW846 6010B
<b>PD_62_3 08/09/01 15:00 020</b>				
Arsenic	2.6	1.0	mg/kg	SW846 6010B
<b>PD_63_1 08/09/01 15:00 021</b>				
Arsenic	6.6	1.0	mg/kg	SW846 6010B
<b>PD_63_3 08/09/01 15:00 022</b>				
Arsenic	12.2	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000011**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_65_1 08/09/01 15:00 023				
Arsenic	10.4	1.0	mg/kg	SW846 6010B
PD_65_3 08/09/01 15:00 024				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
PD_66_1 08/09/01 15:00 025				
Arsenic	3.5	1.0	mg/kg	SW846 6010B
PD_66_3 08/09/01 15:00 026				
Arsenic	18.0	1.0	mg/kg	SW846 6010B
PD_67_1 08/09/01 15:00 027				
Arsenic	7.1	1.0	mg/kg	SW846 6010B
PD_67_3 08/09/01 15:00 028				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
PD_68_1 08/09/01 15:00 029				
Arsenic	358	1.0	mg/kg	SW846 6010B
PD_68_3 08/09/01 15:00 030				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
PD_69_1 08/09/01 15:00 031				
Arsenic	4.4	1.0	mg/kg	SW846 6010B
PD_69_3 08/09/01 15:00 032				
Arsenic	3.1	1.0	mg/kg	SW846 6010B
PD_83_1 08/09/01 15:00 033				
Arsenic	5.1	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000012**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_83_3 08/09/01 15:00 034</b>				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
<b>PD_84_1 08/09/01 15:00 035</b>				
Arsenic	9.2	1.0	mg/kg	SW846 6010B
<b>PD_84_3 08/09/01 15:00 036</b>				
Arsenic	3.6	1.0	mg/kg	SW846 6010B
<b>PD_85_1 08/09/01 15:00 037</b>				
Arsenic	2.6	1.0	mg/kg	SW846 6010B
<b>PD_85_3 08/09/01 15:00 038</b>				
Arsenic	3.0	1.0	mg/kg	SW846 6010B
<b>PD_86_1 08/09/01 15:00 039</b>				
Arsenic	11.7	1.0	mg/kg	SW846 6010B
<b>PD_86_3 08/09/01 15:00 040</b>				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
<b>PD_87_1 08/09/01 15:00 041</b>				
Arsenic	4.0	1.0	mg/kg	SW846 6010B
<b>PD_87_3 08/09/01 15:00 042</b>				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
<b>PD_88_1 08/09/01 15:00 043</b>				
Arsenic	4.3	1.0	mg/kg	SW846 6010B
<b>PD_88_3 08/09/01 15:00 044</b>				
Arsenic	2.8	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000013**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_89_1 08/09/01 15:00 045				
Arsenic	18.8	1.0	mg/kg	SW846 6010B
PD_89_3 08/09/01 15:00 046				
Arsenic	2.5	1.0	mg/kg	SW846 6010B
PD_90_1 08/09/01 15:00 047				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
PD_90_3 08/09/01 15:00 048				
Arsenic	4.6	1.0	mg/kg	SW846 6010B
PD_91_1 08/09/01 15:00 049				
Arsenic	17.8	1.0	mg/kg	SW846 6010B
PD_91_3 08/09/01 15:00 050				
Arsenic	4.4	1.0	mg/kg	SW846 6010B
PD_92_1 08/09/01 15:00 051				
Arsenic	6.3	1.0	mg/kg	SW846 6010B
PD_92_3 08/09/01 15:00 052				
Arsenic	10	1.0	mg/kg	SW846 6010B
PD_93_1 08/09/01 15:00 053				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_93_3 08/09/01 15:00 054				
Arsenic	4.7	1.0	mg/kg	SW846 6010B
PD_94_1 08/09/01 15:00 055				
Arsenic	5.9	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000014**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_94_3 08/09/01 15:00 056</b>				
Arsenic	13.2	1.0	mg/kg	SW846 6010B
<b>PD_95_1 08/09/01 15:00 057</b>				
Arsenic	6.6	1.0	mg/kg	SW846 6010B
<b>PD_95_3 08/09/01 15:00 058</b>				
Arsenic	10.0	1.0	mg/kg	SW846 6010B
<b>PD_96_1 08/09/01 15:00 059</b>				
Arsenic	17.9	1.0	mg/kg	SW846 6010B
<b>PD_96_3 08/09/01 15:00 060</b>				
Arsenic	14.7	1.0	mg/kg	SW846 6010B
<b>PD_97_1 08/10/01 14:00 061</b>				
Arsenic	11.7	1.0	mg/kg	SW846 6010B
<b>PD_97_3 08/10/01 14:00 062</b>				
Arsenic	14.3	1.0	mg/kg	SW846 6010B
<b>PD_98_1 08/10/01 14:00 063</b>				
Arsenic	25.2	1.0	mg/kg	SW846 6010B
<b>PD_98_3 08/10/01 14:00 064</b>				
Arsenic	53.3	1.0	mg/kg	SW846 6010B
<b>PD_99_1 08/10/01 14:00 065</b>				
Arsenic	17.2	1.0	mg/kg	SW846 6010B
<b>PD_99_3 08/10/01 14:00 066</b>				
Arsenic	27.4	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000015**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_100_1 08/10/01 14:00 067				
Arsenic	14.5	1.0	mg/kg	SW846 6010B
PD_100_3 08/10/01 14:00 068				
Arsenic	23.5	1.0	mg/kg	SW846 6010B
PD_101_1 08/10/01 14:00 069				
Arsenic	816	5.0	mg/kg	SW846 6010B
PD_101_3 08/10/01 14:00 070				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
PD_102_1 08/10/01 14:00 071				
Arsenic	6.3	1.0	mg/kg	SW846 6010B
PD_102_3 08/10/01 14:00 072				
Arsenic	3.1	1.0	mg/kg	SW846 6010B
PD_103_1 08/10/01 14:00 073				
Arsenic	12.1	1.0	mg/kg	SW846 6010B
PD_103_3 08/10/01 14:00 074				
Arsenic	4.0	1.0	mg/kg	SW846 6010B
PD_104_1 08/10/01 14:00 075				
Arsenic	78.7	1.0	mg/kg	SW846 6010B
PD_104_3 08/10/01 14:00 076				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_105_1 08/10/01 14:00 077				
Arsenic	4.1	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000016**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H110128**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_105_3 08/10/01 14:00 078				
Arsenic	2.8	1.0	mg/kg	SW846 6010B
PD_106_1 08/10/01 14:00 079				
Arsenic	81.3	1.0	mg/kg	SW846 6010B
PD_106_3 08/10/01 14:00 080				
Arsenic	2.9	1.0	mg/kg	SW846 6010B

**000017**

## METHODS SUMMARY

E1H110128

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B

### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

000018

# SAMPLE SUMMARY

E1H110128

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EHT87	001	PD_46_1	08/09/01	15:00
EHT9H	002	PD_46_3	08/09/01	15:00
EHT9J	003	PD_47_1	08/09/01	15:00
EHT9L	004	PD_47_3	08/09/01	15:00
EHT9M	005	PD_48_1	08/09/01	15:00
EHT9N	006	PD_48_3	08/09/01	15:00
EHT9Q	007	PD_49_1	08/09/01	15:00
EHT9R	008	PD_49_3	08/09/01	15:00
EHT9T	009	PD_58_1	08/09/01	15:00
EHT9V	010	PD_58_3	08/09/01	15:00
EHT9W	011	PD_59_1	08/09/01	15:00
EHT9X	012	PD_59_3	08/09/01	15:00
EHT90	013	PD_45_1	08/09/01	15:00
EHT91	014	PD_45_3	08/09/01	15:00
EHT92	015	PD_60_1	08/09/01	15:00
EHT93	016	PD_60_3	08/09/01	15:00
EHT95	017	PD_61_1	08/09/01	15:00
EHT96	018	PD_61_3	08/09/01	15:00
EHT97	019	PD_62_1	08/09/01	15:00
EHT98	020	PD_62_3	08/09/01	15:00
EHT99	021	PD_63_1	08/09/01	15:00
EHVAAC	022	PD_63_3	08/09/01	15:00
EHVAC	023	PD_65_1	08/09/01	15:00
EHVAD	024	PD_65_3	08/09/01	15:00
EHVAE	025	PD_66_1	08/09/01	15:00
EHVAF	026	PD_66_3	08/09/01	15:00
EHVAG	027	PD_67_1	08/09/01	15:00
EHVAH	028	PD_67_3	08/09/01	15:00
EHVAJ	029	PD_68_1	08/09/01	15:00
EHVAK	030	PD_68_3	08/09/01	15:00
EHVAL	031	PD_69_1	08/09/01	15:00
EHVAM	032	PD_69_3	08/09/01	15:00
EHVAN	033	PD_83_1	08/09/01	15:00
EHVAP	034	PD_83_3	08/09/01	15:00
EHVAQ	035	PD_84_1	08/09/01	15:00
EHVAR	036	PD_84_3	08/09/01	15:00

(Continued on next page)

000019

# SAMPLE SUMMARY

E1H110128

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EHVAT	037	PD_85_1	08/09/01	15:00
EHVAV	038	PD_85_3	08/09/01	15:00
EHVAW	039	PD_86_1	08/09/01	15:00
EHVAX	040	PD_86_3	08/09/01	15:00
EHVA0	041	PD_87_1	08/09/01	15:00
EHVA1	042	PD_87_3	08/09/01	15:00
EHVA2	043	PD_88_1	08/09/01	15:00
EHVA3	044	PD_88_3	08/09/01	15:00
EHVA4	045	PD_89_1	08/09/01	15:00
EHVA5	046	PD_89_3	08/09/01	15:00
EHVA6	047	PD_90_1	08/09/01	15:00
EHVA7	048	PD_90_3	08/09/01	15:00
EHVA8	049	PD_91_1	08/09/01	15:00
EHVA9	050	PD_91_3	08/09/01	15:00
EHVCA	051	PD_92_1	08/09/01	15:00
EHVCC	052	PD_92_3	08/09/01	15:00
EHVCD	053	PD_93_1	08/09/01	15:00
EHVCF	054	PD_93_3	08/09/01	15:00
EHVCG	055	PD_94_1	08/09/01	15:00
EHVCJ	056	PD_94_3	08/09/01	15:00
EHVCK	057	PD_95_1	08/09/01	15:00
EHVCL	058	PD_95_3	08/09/01	15:00
EHVCM	059	PD_96_1	08/09/01	15:00
EHVCN	060	PD_96_3	08/09/01	15:00
EHVCP	061	PD_97_1	08/10/01	14:00
EHVCQ	062	PD_97_3	08/10/01	14:00
EHVCR	063	PD_98_1	08/10/01	14:00
EHVCV	064	PD_98_3	08/10/01	14:00
EHVCW	065	PD_99_1	08/10/01	14:00
EHVCX	066	PD_99_3	08/10/01	14:00
EHVC0	067	PD_100_1	08/10/01	14:00
EHVC1	068	PD_100_3	08/10/01	14:00
EHVC2	069	PD_101_1	08/10/01	14:00
EHVC3	070	PD_101_3	08/10/01	14:00
EHVC5	071	PD_102_1	08/10/01	14:00
EHVC6	072	PD_102_3	08/10/01	14:00

(Continued on next page)

000020

# SAMPLE SUMMARY

E1H110128

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EHVC7	073	PD_103_1	08/10/01	14:00
EHVC8	074	PD_103_3	08/10/01	14:00
EHVC9	075	PD_104_1	08/10/01	14:00
EHVDA	076	PD_104_3	08/10/01	14:00
EHVDD	077	PD_105_1	08/10/01	14:00
EHVDE	078	PD_105_3	08/10/01	14:00
EHVDF	079	PD_106_1	08/10/01	14:00
EHVDG	080	PD_106_3	08/10/01	14:00

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000021

HALEY & ALDRICH INC

Client Sample ID: PD\_46\_1

TOTAL Metals

Lot-Sample #....: E1H110128-001 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1225341					
Arsenic	5.4	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT871AA
		Dilution Factor:	1	Analysis Time..:	10:59	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1225188	MDL.....: 0.40

000022

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_46\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-002 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225341							
Arsenic	4.5	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT9H1AA
		Dilution Factor:	1	Analysis Time...:	11:33	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40	

000023

HALEY & ALDRICH INC

Client Sample ID: PD\_47\_1

TOTAL Metals

Lot-Sample #....: E1H110128-003                                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #....:	1225341							
Arsenic	264	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT9J1AA
		Dilution Factor:	1		Analysis Time...:	11:55	Analyst ID.....:	021088
		Instrument ID...:	M01		MS Run #.....:	1225188	MDL.....:	0.40

000024

BOE-C6-0181760

HALEY & ALDRICH INC

Client Sample ID: PD\_47\_3

TOTAL Metals

Lot-Sample #...: E1H110128-004

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1225341							
Arsenic	3.9	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT9L1AA
		Dilution Factor:	1	Analysis Time..:	12:04	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1225188	MDL.....:	0.40	

000025

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_48\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-005                                  Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #....:	1225341								
Arsenic	5.3	1.0	mg/kg		SW846 6010B			08/13-08/14/01	EHT9M1AA
		Dilution Factor:	1			Analysis Time...:	12:12	Analyst ID.....:	021088
		Instrument ID...:	M01			MS Run #.....:	1225188	MDL.....:	0.40

000026

HALEY & ALDRICH INC

Client Sample ID: PD\_48\_3

TOTAL Metals

Lot-Sample #....: E1H110128-006                                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	
					<u>ANALYSIS DATE</u>	<u>ORDER #</u>	
Prep Batch #....:	1225341						
Arsenic	13.0	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT9N1AA	
		Dilution Factor:	1	Analysis Time...:	12:20	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40

000027

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_49\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-007

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	ANALYSIS DATE	PREPARATION- WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....:	1225341						
Arsenic	28.6	1.0	mg/kg		SW846 6010B	08/13-08/14/01	EHT9Q1AA
		Dilution Factor:	1		Analysis Time..:	12:29	Analyst ID.....: 021088
		Instrument ID..:	M01		MS Run #.....:	1225188	MDL.....: 0.40

000028

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_49\_3**

**TOTAL Metals**

**Lot-Sample #....: E1H110128-008**

**Matrix.....: SOLID**

**Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
<b>Prep Batch #....: 1225341</b>								
<b>Arsenic</b>	<b>46.7</b>	<b>1.0</b>	<b>mg/kg</b>	<b>SW846 6010B</b>	<b>08/13-08/14/01</b>	<b>EHT9R1AA</b>		
		Dilution Factor: 1		Analysis Time...: 12:37		Analyst ID.....: 021088		
		Instrument ID...: M01		MS Run #.....: 1225188		MDL.....: 0.40		

**000029**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_58\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-009

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225341							
Arsenic	10.1	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT9T1AA
		Dilution Factor:	1	Analysis Time...:	12:45	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40	

000030

HALEY & ALDRICH INC

Client Sample ID: PD\_58\_3

TOTAL Metals

Lot-Sample #...: E1H110128-010 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-	WORK	
					ANALYSIS DATE	ORDER #	
Prep Batch #: 1225341							
Arsenic	2.4	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT9V1AA	
		Dilution Factor: 1		Analysis Time...: 12:54	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1225188	MDL.....:	0.40	

000031

HALEY & ALDRICH INC

Client Sample ID: PD\_59\_1

TOTAL Metals

Lot-Sample #....: E1H110128-011  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225341							
Arsenic	9.3	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT9W1AA
		Dilution Factor:	1		Analysis Time..:	13:02	Analyst ID.....:	021088
		Instrument ID..:	M01		MS Run #.....:	1225188	MDL.....:	0.40

000032

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_59\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-012

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
<b>Prep Batch #...: 1225341</b>								
Arsenic	3.1	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT9X1AA		
		Dilution Factor: 1		Analysis Time...: 13:08	Analyst ID.....:	021088		
		Instrument ID...: M01		MS Run #.....: 1225188	MDL.....:	0.40		

000033

HALEY & ALDRICH INC

Client Sample ID: PD\_45\_1

TOTAL Metals

Lot-Sample #....: E1H110128-013  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50 Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #....:	1225341							
Arsenic	7.7	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT901AA
		Dilution Factor: 1			Analysis Time...: 13:31		Analyst ID.....:	021088
		Instrument ID...: M01			MS Run #.....: 1225188		MDL.....:	0.40

000034

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_45\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-014

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #....: 1225341</b>							
Arsenic	3.9	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHT911AA
		Dilution Factor: 1		Analysis Time...: 13:39		Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1225188		MDL.....:	0.40

000035

HALEY & ALDRICH INC

Client Sample ID: PD\_60\_1

**TOTAL Metals**

Lot-Sample #....: E1H110128-015                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225341							
Arsenic	11.7	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHT921AA
		Dilution Factor:	1	Analysis Time...:	13:50	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40	

**000036**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_60\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-016

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225341					
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT931AA
		Dilution Factor:	1	Analysis Time...:	14:00	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....: 0.40

000037

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_61\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-017

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #....: 1225341</b>						
Arsenic	232	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT951AA
		Dilution Factor: 1		Analysis Time...: 14:09	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1225188	MDL.....:	0.40

000038

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_61\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-018                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225341						
Arsenic	2.7	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHT961AA
		Dilution Factor:	1	Analysis Time...:	14:19	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40

000039

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_62\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-019 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #: 1225341									
Arsenic	5.0	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHT971AA		
		Dilution Factor:	1		Analysis Time...:	14:27	Analyst ID.....:	021088	
		Instrument ID...:	M01		MS Run #.....:	1225188	MDL.....:	0.40	

000040

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_62\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-020                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>PREPARATION-</u>			
Prep Batch #...: 1225341							
Arsenic	2.6	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHT981AA
		Dilution Factor:	1	Analysis Time...:	14:36	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225188	MDL.....:	0.40

000041

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_63\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-021                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225343					
Arsenic	6.6	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHT991AA
		Dilution Factor:	1	Analysis Time...:	15:13	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....: 0.40

000042

HALEY & ALDRICH INC

Client Sample ID: PD\_63\_3

TOTAL Metals

Lot-Sample #...: E1H110128-022 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...: 1225343								
Arsenic	12.2	1.0	mg/kg	SW846 6010B			08/13-08/14/01 EHVA1AA	
		Dilution Factor: 1		Analysis Time..: 16:10		Analyst ID.....: 021088		
		Instrument ID...: M01		MS Run #.....: 1225190		MDL.....: 0.40		

000043

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_65\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-023                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	
					<u>ANALYSIS DATE</u>	<u>ORDER #</u>	
Prep Batch #....:	1225343						
Arsenic	10.4	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAC1AA	
		Dilution Factor:	1	Analysis Time...:	16:18	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000044

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_65\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-024                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>PREPARATION-</u>			
Prep Batch #...: 1225343							
Arsenic	4.1	1.0	mg/kg	SW846 6010B		08/13-08/14/01 EHVAD1AA	
		Dilution Factor: 1		Analysis Time...: 16:28		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1225190		MDL.....: 0.40	

000045

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_66\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-025 **Matrix.....: SOLID**  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1225343					
Arsenic	3.5	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAE1AA
		Dilution Factor:	1	Analysis Time...:	16:39	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....: 0.40

000046

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_66\_3**

**TOTAL Metals**

**Lot-Sample #....: E1H110128-026** **Matrix.....: SOLID**  
**Date Sampled...: 08/09/01 15:00** **Date Received..: 08/10/01 19:50**

<b>PARAMETER</b>	<b>RESULT</b>	REPORTING			<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>	<b>ANALYSIS DATE</b>	<b>ORDER #</b>
		<b>LIMIT</b>	<b>UNITS</b>						
<b>Prep Batch #....: 1225343</b>									
<b>Arsenic</b>	<b>18.0</b>	<b>1.0</b>	<b>mg/kg</b>		<b>SW846 6010B</b>		<b>08/13-08/14/01 EHVAF1AA</b>		
		Dilution Factor: 1			Analysis Time...: 16:49		Analyst ID.....: 021088		
		Instrument ID...: M01			MS Run #.....: 1225190		MDL.....: 0.40		

**000047**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_67\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-027

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225343							
Arsenic	7.1	1.0	mg/kg	SW846 6010B			08/13-08/14/01	EHVAG1AA
		Dilution Factor:	1	Analysis Time...:	17:14	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....:		0.40

000048

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_67\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-028

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ANALYST ID</u>	
Prep Batch #....:	1225343						
Arsenic	4.1	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAH1AA	
		Dilution Factor:	1	Analysis Time...:	17:22	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000049

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_68\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-029                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING	<u>UNITS</u>	<u>METHOD</u>	PREPARATION-	WORK	<u>ORDER #</u>
		<u>LIMIT</u>			<u>ANALYSIS DATE</u>	<u>DATE</u>	
Prep Batch #...:	1225343						
Arsenic	358	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAJ1AA	
		Dilution Factor:	1	Analysis Time...:	17:33	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000050

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_68\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-030                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #....:	1225343								
Arsenic	3.2	1.0	mg/kg		SW846 6010B			08/13-08/14/01	EHVAK1AA
		Dilution Factor:	1		Analysis Time..:	17:40	Analyst ID.....:	021088	
		Instrument ID..:	M01		MS Run #.....:	1225190	MDL.....:	0.40	

000051

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_69\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-031                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #...: 1225343						
Arsenic	4.4	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAL1AA
		Dilution Factor: 1		Analysis Time...: 17:50	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1225190	MDL.....:	0.40

000052

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_69\_3**

### **TOTAL Metals**

**Lot-Sample #...**: E1H110128-032      **Matrix.....**: SOLID  
**Date Sampled...**: 08/09/01 15:00    **Date Received...**: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 1225343						
Arsenic	3.1	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAM1AA
		Dilution Factor: 1		Analysis Time...: 17:57		Analyst ID.....: 021088
			Instrument ID...: M01	MS Run #.....: 1225190		MDL.....: 0.40

000053

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_83\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-033 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u> </u>			
Prep Batch #...:	1225343						
Arsenic	5.1	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHVAN1AA
		Dilution Factor:	1	Analysis Time..:	18:06	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000054

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_83\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-034   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225343					
Arsenic	4.1	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHVAP1AA
		Dilution Factor:	1	Analysis Time...:	18:14	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1225190	MDL.....: 0.40

000055

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_84\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-035                                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #....:	1225343								
Arsenic	9.2	1.0	mg/kg		SW846 6010B			08/13-08/14/01	EHVAQ1AA
		Dilution Factor:	1		Analysis Time..:	18:22	Analyst ID.....:	021088	
		Instrument ID..:	M01		MS Run #.....:	1225190	MDL.....:	0.40	

000056

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_84\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-036   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225343						
Arsenic	3.6	1.0	mg/kg	SW846 6010B		08/13-08/14/01	EHVAR1AA
		Dilution Factor:	1	Analysis Time..:	18:33	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000057

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_85\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-037                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00   Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ANALYST ID</u>	
Prep Batch #...: 1225343				SW846 6010B	08/13-08/15/01	EHVAT1AA	
Arsenic	2.6	1.0	mg/kg		Dilution Factor: 1	Analysis Time...: 10:36	Analyst ID.....: 021088
					Instrument ID...: M01	MS Run #.....: 1225190	MDL.....: 0.40

000058

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_85\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-038   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225343						
Arsenic	3.0	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVAV1AA
		Dilution Factor:	1	Analysis Time..:	10:44	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1225190	MDL.....:	0.40

000059

HALEY & ALDRICH INC

Client Sample ID: PD\_86\_1

**TOTAL Metals**

Lot-Sample #....: E1H110128-039                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00   Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #....:	1225343					
Arsenic	11.7	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVAW1AA
		Dilution Factor:	1	Analysis Time...:	10:52	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225190	MDL.....: 0.40

000060

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_86\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-040

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
<b>Prep Batch #....: 1225343</b>						
Arsenic	4.5	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVAX1AA
		Dilution Factor: 1		Analysis Time...: 11:01	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1225190	MDL.....:	0.40

000061

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_87\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-041 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION-	WORK	ORDER #
		LIMIT			ANALYSIS DATE		
Prep Batch #....:	1225345						
Arsenic	4.0	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVA01AA	
		Dilution Factor:	1	Analysis Time...:	11:38	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:	0.40

000062

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_87\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-042

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1225345					
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVA11AA
		Dilution Factor:	1	Analysis Time...:	12:32	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000063

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_88\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-043 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225345						
Arsenic	4.3	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVA21AA
		Dilution Factor:	1	Analysis Time...:	12:40	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:	0.40

000064

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_88\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-044 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225345							
Arsenic	2.8	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVA31AA
		Dilution Factor:	1	Analysis Time...:	12:49	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:	0.40	

000065

HALEY & ALDRICH INC

Client Sample ID: PD\_89\_1

TOTAL Metals

Lot-Sample #...: E1H110128-045 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Prep Batch #...:	1225345								
Arsenic	18.8	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVA41AA		
		Dilution Factor:	1	Analysis Time..:	12:57	Analyst ID.....:	021088		
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....:	0.40		

000066

HALEY & ALDRICH INC

Client Sample ID: PD\_89\_3

TOTAL Metals

Lot-Sample #....: E1H110128-046                                  Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225345							
Arsenic	2.5	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVA51AA
		Dilution Factor:	1	Analysis Time...:	13:07	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:	0.40	

000067

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_90\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-047                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION-	WORK	ORDER #
		LIMIT			ANALYSIS DATE		
Prep Batch #....:	1225345						
Arsenic	2.7	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVA61AA	
		Dilution Factor:	1	Analysis Time..:	13:18	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....:	0.40

000068

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_90\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-048

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
					<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #....:	1225345					
Arsenic	4.6	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVA71AA
		Dilution Factor:	1	Analysis Time...:	13:26	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000069

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_91\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-049  
Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50 Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225345					
Arsenic	17.8	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVA81AA
		Dilution Factor:	1	Analysis Time...:	13:35	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000070

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_91\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-050                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #...:	1225345						
Arsenic	4.4	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVA91AA
		Dilution Factor:	1	Analysis Time...:	13:43	Analyst ID.....:	021088
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....:	0.40

000071

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_92\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-051                           Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00   Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225345					
Arsenic	6.3	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCA1AA
		Dilution Factor:	1	Analysis Time...:	13:53	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000072

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_92\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-052                                  Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #...:	1225345					
Arsenic	10	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCC1AA
		Dilution Factor:	1	Analysis Time...:	14:18	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000073

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_93\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-053                                  Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #....:	1225345					
Arsenic	4.5	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCD1AA
		Dilution Factor:	1	Analysis Time...:	14:27	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000074

HALEY & ALDRICH INC

Client Sample ID: PD\_93\_3

TOTAL Metals

Lot-Sample #...: E1H110128-054 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1225345							
Arsenic	4.7	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCF1AA
		Dilution Factor:	1	Analysis Time...:	14:37	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....:	0.40	

000075

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_94\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-055

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION-	WORK
		LIMIT			ANALYSIS DATE	ORDER #
Prep Batch #....:	1225345					
Arsenic	5.9	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCG1AA
		Dilution Factor:	1	Analysis Time...:	14:45	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000076

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_94\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-056                                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225345							
Arsenic	13.2	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCJ1AA
		Dilution Factor:	1	Analysis Time...:	14:56	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1225191	MDL.....:	0.40	

000077

HALEY & ALDRICH INC

Client Sample ID: PD\_95\_1

TOTAL Metals

Lot-Sample #....: E1H110128-057 Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225345							
Arsenic	6.6	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCK1AA
		Dilution Factor:	1	Analysis Time...:	15:04	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:		0.40

000078

HALEY & ALDRICH INC

Client Sample ID: PD\_95\_3

**TOTAL Metals**

Lot-Sample #....: E1H110128-058                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225345						
Arsenic	10.0	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVCL1AA
		Dilution Factor:	1	Analysis Time...:	15:13	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....:	0.40

000079

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_96\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-059

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...: 1225345						
Arsenic	17.9	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCM1AA
		Dilution Factor:	1	Analysis Time...: 15:21	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1225191	MDL.....:	0.40

000080

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_96\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-060                   Matrix.....: SOLID  
Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #....:	1225345					
Arsenic	14.7	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCN1AA
		Dilution Factor:	1	Analysis Time...:	15:29	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1225191	MDL.....: 0.40

000081

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_97\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-061                                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...: 1225347								
Arsenic	11.7	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCP1AA
		Dilution Factor:	1	Analysis Time..:	16:12	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000082

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_97\_3

## TOTAL Metals

Lot-Sample #...: E1H110128-062                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...: 1225347								
Arsenic	14.3	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCQ1AA
		Dilution Factor:	1	Analysis Time...:	16:49	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000083

BOE-C6-0181819

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_98\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-063                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1225347						
Arsenic	25.2	1.0	mg/kg	SW846 6010B		08/13-08/15/01	EHVCR1AA
		Dilution Factor:	1	Analysis Time..:	16:57	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40

000084

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_98\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-064                           Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	53.3	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVCV1AA
		Dilution Factor:	1	Analysis Time...:	17:06	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000085

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_99\_1**

**TOTAL Metals**

**Lot-Sample #...: E1H110128-065** **Matrix.....: SOLID**  
**Date Sampled...: 08/10/01 14:00** **Date Received..: 08/10/01 19:50**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	
					<u>ANALYSIS DATE</u>	<u>ORDER #</u>	
<b>Prep Batch #:...: 1225347</b>							
<b>Arsenic</b>	<b>17.2</b>	<b>1.0</b>	<b>mg/kg</b>	<b>SW846 6010B</b>	<b>08/13-08/15/01</b>	<b>EHVCW1AA</b>	
		Dilution Factor: 1		Analysis Time...: 17:14	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1225192	MDL.....:	0.40	

**000086**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_99\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-066                           Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>			
Prep Batch #....:	1225347					
Arsenic	27.4	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVCX1AA
		Dilution Factor:	1	Analysis Time...:	17:41	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1225192	MDL.....: 0.40

000087

HALEY & ALDRICH INC

Client Sample ID: PD\_100\_1

**TOTAL Metals**

Lot-Sample #...: E1H110128-067                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1225347							
Arsenic	14.5	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC01AA
		Dilution Factor:	1	Analysis Time...:	17:50	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000088

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_100\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-068                           Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	23.5	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC11AA
		Dilution Factor:	1	Analysis Time..:	17:58	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000089

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_101\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-069   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1225347						
Arsenic	816	5.0	mg/kg	SW846 6010B	08/13-08/16/01	EHVC21AA	
		Dilution Factor:	5	Analysis Time...:	11:21	Analyst ID....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	2.0

000090

HALEY & ALDRICH INC

Client Sample ID: PD\_101\_3

TOTAL Metals

Lot-Sample #....: E1H110128-070                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	2.7	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC31AA
		Dilution Factor:	1	Analysis Time...:	18:13	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000091

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_102\_1

## TOTAL Metals

Lot-Sample #...: E1H110128-071 Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1225347							
Arsenic	6.3	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC51AA
		Dilution Factor:	1	Analysis Time...:	18:23	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000092

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_102\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-072                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>ANALYSIS DATE</u>			
Prep Batch #....:	1225347						
Arsenic	3.1	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVC61AA	
		Dilution Factor:	1	Analysis Time...:	18:31	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40

000093

HALEY & ALDRICH INC

Client Sample ID: PD\_103\_1

**TOTAL Metals**

Lot-Sample #....: E1H110128-073                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00   Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	12.1	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC71AA
		Dilution Factor:	1	Analysis Time...:	18:40	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:		0.40

**000094**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_103\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-074 Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	4.0	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVC81AA
		Dilution Factor:	1	Analysis Time...:	18:50	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000095

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_104\_1**

**TOTAL Metals**

**Lot-Sample #....: E1H110128-075** **Matrix.....: SOLID**  
**Date Sampled...: 08/10/01 14:00** **Date Received..: 08/10/01 19:50**

<b>PARAMETER</b>	<b>RESULT</b>	<b>REPORTING</b>			<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>	<b>ANALYSIS DATE</b>	<b>ORDER #</b>
		<b>LIMIT</b>	<b>UNITS</b>						
<b>Prep Batch #....: 1225347</b>									
<b>Arsenic</b>	<b>78.7</b>	<b>1.0</b>	<b>mg/kg</b>		<b>SW846 6010B</b>		<b>08/13-08/15/01 EHVC91AA</b>		
		Dilution Factor: 1			Analysis Time...: 18:58		Analyst ID.....: 021088		
		Instrument ID...: M01			MS Run #.....: 1225192		MDL.....: 0.40		

**000096**

HALEY & ALDRICH INC

Client Sample ID: PD\_104\_3

TOTAL Metals

Lot-Sample #....: E1H110128-076  
Date Sampled...: 08/10/01 14:00 Date Received...: 08/10/01 19:50 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1225347								
Arsenic	2.9	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVDA1AA		
		Dilution Factor:	1	Analysis Time...:	19:21	Analyst ID....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000097

HALEY & ALDRICH INC

Client Sample ID: PD\_105\_1

TOTAL Metals

Lot-Sample #....: E1H110128-077

Matrix.....: SOLID

Date Sampled...: 08/10/01 14:00 Date Received...: 08/10/01 19:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	1225347					
Arsenic	4.1	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVDD1AA
		Dilution Factor: 1		Analysis Time...: 19:30	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1225192	MDL.....:	0.40

000098

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_105\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-078

Matrix.....: SOLID

Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1225347							
Arsenic	2.8	1.0	mg/kg	SW846 6010B			08/13-08/15/01	EHVDE1AA
		Dilution Factor:	1	Analysis Time...:	19:38	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1225192	MDL.....:	0.40	

000099

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_106\_1

## TOTAL Metals

Lot-Sample #....: E1H110128-079                   Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>						
Prep Batch #....:	1225347								
Arsenic	81.3	1.0	mg/kg		SW846 6010B			08/13-08/15/01	EHVDF1AA
		Dilution Factor:	1		Analysis Time...:	19:46	Analyst ID.....:	021088	
		Instrument ID...:	M01		MS Run #.....:	1225192	MDL.....:	0.40	

000100

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_106\_3

## TOTAL Metals

Lot-Sample #....: E1H110128-080                           Matrix.....: SOLID  
Date Sampled...: 08/10/01 14:00 Date Received...: 08/10/01 19:50

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #: 1225347							
Arsenic	2.9	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHVDG1AA	
		Dilution Factor:	1	Analysis Time...: 19:55	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1225192	MDL.....:	0.40	

000101

# QC DATA ASSOCIATION SUMMARY

E1H110128

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 6010B		1225341	1225188
002	SOLID	SW846 6010B		1225341	1225188
003	SOLID	SW846 6010B		1225341	1225188
004	SOLID	SW846 6010B		1225341	1225188
005	SOLID	SW846 6010B		1225341	1225188
006	SOLID	SW846 6010B		1225341	1225188
007	SOLID	SW846 6010B		1225341	1225188
008	SOLID	SW846 6010B		1225341	1225188
009	SOLID	SW846 6010B		1225341	1225188
010	SOLID	SW846 6010B		1225341	1225188
011	SOLID	SW846 6010B		1225341	1225188
012	SOLID	SW846 6010B		1225341	1225188
013	SOLID	SW846 6010B		1225341	1225188
014	SOLID	SW846 6010B		1225341	1225188
015	SOLID	SW846 6010B		1225341	1225188
016	SOLID	SW846 6010B		1225341	1225188
017	SOLID	SW846 6010B		1225341	1225188
018	SOLID	SW846 6010B		1225341	1225188
019	SOLID	SW846 6010B		1225341	1225188
020	SOLID	SW846 6010B		1225341	1225188
021	SOLID	SW846 6010B		1225343	1225190

(Continued on next page)

000102

# QC DATA ASSOCIATION SUMMARY

E1H110128

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
022	SOLID	SW846 6010B		1225343	1225190
023	SOLID	SW846 6010B		1225343	1225190
024	SOLID	SW846 6010B		1225343	1225190
025	SOLID	SW846 6010B		1225343	1225190
026	SOLID	SW846 6010B		1225343	1225190
027	SOLID	SW846 6010B		1225343	1225190
028	SOLID	SW846 6010B		1225343	1225190
029	SOLID	SW846 6010B		1225343	1225190
030	SOLID	SW846 6010B		1225343	1225190
031	SOLID	SW846 6010B		1225343	1225190
032	SOLID	SW846 6010B		1225343	1225190
033	SOLID	SW846 6010B		1225343	1225190
034	SOLID	SW846 6010B		1225343	1225190
035	SOLID	SW846 6010B		1225343	1225190
036	SOLID	SW846 6010B		1225343	1225190
037	SOLID	SW846 6010B		1225343	1225190
038	SOLID	SW846 6010B		1225343	1225190
039	SOLID	SW846 6010B		1225343	1225190
040	SOLID	SW846 6010B		1225343	1225190
041	SOLID	SW846 6010B		1225345	1225191
042	SOLID	SW846 6010B		1225345	1225191

(Continued on next page)

000103

# QC DATA ASSOCIATION SUMMARY

E1H110128

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
043	SOLID	SW846 6010B		1225345	1225191
044	SOLID	SW846 6010B		1225345	1225191
045	SOLID	SW846 6010B		1225345	1225191
046	SOLID	SW846 6010B		1225345	1225191
047	SOLID	SW846 6010B		1225345	1225191
048	SOLID	SW846 6010B		1225345	1225191
049	SOLID	SW846 6010B		1225345	1225191
050	SOLID	SW846 6010B		1225345	1225191
051	SOLID	SW846 6010B		1225345	1225191
052	SOLID	SW846 6010B		1225345	1225191
053	SOLID	SW846 6010B		1225345	1225191
054	SOLID	SW846 6010B		1225345	1225191
055	SOLID	SW846 6010B		1225345	1225191
056	SOLID	SW846 6010B		1225345	1225191
057	SOLID	SW846 6010B		1225345	1225191
058	SOLID	SW846 6010B		1225345	1225191
059	SOLID	SW846 6010B		1225345	1225191
060	SOLID	SW846 6010B		1225345	1225191
061	SOLID	SW846 6010B		1225347	1225192
062	SOLID	SW846 6010B		1225347	1225192
063	SOLID	SW846 6010B		1225347	1225192

(Continued on next page)

**000104**

# QC DATA ASSOCIATION SUMMARY

E1H110128

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
064	SOLID	SW846 6010B		1225347	1225192
065	SOLID	SW846 6010B		1225347	1225192
066	SOLID	SW846 6010B		1225347	1225192
067	SOLID	SW846 6010B		1225347	1225192
068	SOLID	SW846 6010B		1225347	1225192
069	SOLID	SW846 6010B		1225347	1225192
070	SOLID	SW846 6010B		1225347	1225192
071	SOLID	SW846 6010B		1225347	1225192
072	SOLID	SW846 6010B		1225347	1225192
073	SOLID	SW846 6010B		1225347	1225192
074	SOLID	SW846 6010B		1225347	1225192
075	SOLID	SW846 6010B		1225347	1225192
076	SOLID	SW846 6010B		1225347	1225192
077	SOLID	SW846 6010B		1225347	1225192
078	SOLID	SW846 6010B		1225347	1225192
079	SOLID	SW846 6010B		1225347	1225192
080	SOLID	SW846 6010B		1225347	1225192

000105

**METHOD BLANK REPORT**

**TOTAL Metals**

**Client Lot #...: E1H110128**

**Matrix.....: SOLID**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: E1H130000-341 Prep Batch #...: 1225341</b>						
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHWJW1AA
Dilution Factor: 1						
Analysis Time...: 10:42 Analyst ID....: 021088 Instrument ID...: M01						
<b>MB Lot-Sample #: E1H130000-343 Prep Batch #...: 1225343</b>						
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/13-08/14/01	EHWJ51AA
Dilution Factor: 1						
Analysis Time...: 14:44 Analyst ID....: 021088 Instrument ID...: M01						
<b>MB Lot-Sample #: E1H130000-345 Prep Batch #...: 1225345</b>						
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHWKE1AA
Dilution Factor: 1						
Analysis Time...: 11:11 Analyst ID....: 021088 Instrument ID...: M01						
<b>MB Lot-Sample #: E1H130000-347 Prep Batch #...: 1225347</b>						
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/13-08/15/01	EHWKM1AA
Dilution Factor: 1						
Analysis Time...: 15:52 Analyst ID....: 021088 Instrument ID...: M01						

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000106**

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1H110128

**Matrix.....:** SOLID

PARAMETER	SPIKE	MEASURED	PERCNT		PREPARATION-	WORK	
	AMOUNT	AMOUNT	UNITS	RECVRY			ORDER #
<b>LCS Lot-Sample#:</b> E1H130000-341 <b>Prep Batch #....:</b> 1225341							
Arsenic	200	176	mg/kg	88	SW846 6010B	08/13-08/14/01	EHWJW1AC
Dilution Factor: 1							
Analysis Time...: 10:48 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H130000-343 <b>Prep Batch #....:</b> 1225343							
Arsenic	200	185	mg/kg	93	SW846 6010B	08/13-08/14/01	EHWJ51AC
Dilution Factor: 1							
Analysis Time...: 14:50 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H130000-345 <b>Prep Batch #....:</b> 1225345							
Arsenic	200	175	mg/kg	88	SW846 6010B	08/13-08/15/01	EHWKE1AC
Dilution Factor: 1							
Analysis Time...: 11:17 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H130000-347 <b>Prep Batch #....:</b> 1225347							
Arsenic	200	179	mg/kg	90	SW846 6010B	08/13-08/15/01	EHWKM1AC
Dilution Factor: 1							
Analysis Time...: 16:01 Analyst ID.....: 021088 Instrument ID...: M01							

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000107**

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H110128

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> E1H130000-341 <b>Prep Batch #...:</b> 1225341					
Arsenic	88	(75 - 115)	SW846 6010B	08/13-08/14/01	EHWJW1AC
Dilution Factor: 1					
			Analysis Time...: 10:48	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H130000-343 <b>Prep Batch #...:</b> 1225343					
Arsenic	93	(75 - 115)	SW846 6010B	08/13-08/14/01	EHWJ51AC
Dilution Factor: 1					
			Analysis Time...: 14:50	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H130000-345 <b>Prep Batch #...:</b> 1225345					
Arsenic	88	(75 - 115)	SW846 6010B	08/13-08/15/01	EHWKE1AC
Dilution Factor: 1					
			Analysis Time...: 11:17	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H130000-347 <b>Prep Batch #...:</b> 1225347					
Arsenic	90	(75 - 115)	SW846 6010B	08/13-08/15/01	EHWKM1AC
Dilution Factor: 1					
			Analysis Time...: 16:01	Analyst ID.....: 021088	Instrument ID...: M01

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000108

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	SAMPLE	SPIKE	MEASURED	PERCNT			PREPARATION-	WORK	ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			

MS Lot-Sample #: E1H110128-001 Prep Batch #....: 1225341

Arsenic

5.4	200	177	mg/kg	86	SW846	6010B	08/13-08/14/01	EHT871AC
5.4	200	179	mg/kg	87	1.1	SW846	08/13-08/14/01	EHT871AD

Dilution Factor: 1

Analysis Time...: 11:14 Instrument ID...: M01

MS Run #.....: 1225188

Analyst ID.....: 021088

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000109

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

SAMPLE	SPIKE	MEASURED	PERCNT	PREPARATION-	WORK			
PARAMETER	AMOUNT	AMT	RECVRY	RPD	METHOD	ANALYSIS	DATE	ORDER #

MS Lot-Sample #: E1H110128-021 Prep Batch #....: 1225343

Arsenic

6.6	200	180	mg/kg	87	SW846	6010B	08/13-08/14/01	EHT991AC	
6.6	200	180	mg/kg	87	0.37	SW846	6010B	08/13-08/14/01	EHT991AD

Dilution Factor: 1

Analysis Time...: 15:41 Instrument ID...: M01

Analyst ID.....: 021088

MS Run #.....: 1225190

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000110

MATRIX SPIKE SAMPLE DATA REPORT

**TOTAL Metals**

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	SAMPLE SPIKE MEASURED			PERCNT			PREPARATION-	WORK	ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			
MS Lot-Sample #:	E1H110128-041			Prep Batch #....: 1225345					
Arsenic	4.0	200	182	mg/kg	89		SW846	6010B	08/13-08/15/01 EHVA01AC
	4.0	200	161	mg/kg	78	13	SW846	6010B	08/13-08/15/01 EHVA01AD
	Dilution Factor: 1								
	Analysis Time...: 11:55			Instrument ID...: M01			Analyst ID.....: 021088		
	MS Run #.....: 1225191								

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000111**

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	SAMPLE SPIKE MEASURED			PERCNT			PREPARATION-	WORK
	AMOUNT	AMT	UNITS	RECVRY	RPD	METHOD		

MS Lot-Sample #: E1H110128-061 Prep Batch #...: 1225347

Arsenic

11.7	200	195	mg/kg	91	SW846	6010B	08/13-08/15/01	EHVCP1AC	
11.7	200	193	mg/kg	91	0.82	SW846	6010B	08/13-08/15/01	EHVCP1AD

Dilution Factor: 1

Analysis Time...: 16:28 Instrument ID...: M01 Analyst ID.....: 021088

MS Run #.....: 1225192

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000112

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H110128-001 <b>Prep Batch #:</b> 1225341							
Arsenic	86	(75 - 115)		SW846 6010B		08/13-08/14/01	EHT871AC
	87	(75 - 115)	1.1	(0-25)	SW846 6010B	08/13-08/14/01	EHT871AD
Dilution Factor: 1							
Analysis Time...: 11:14				Instrument ID...: M01		Analyst ID.....: 021088	
MS Run #.....: 1225188							

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000113

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received...: 08/10/01 19:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H110128-021 <b>Prep Batch #:</b> 1225343							
Arsenic	87	(75 - 115)		SW846 6010B		08/13-08/14/01	EHT991AC
	87	(75 - 115)	0.37 (0-25)	SW846 6010B		08/13-08/14/01	EHT991AD
Dilution Factor: 1							
Analysis Time...: 15:41				Instrument ID...: M01	Analyst ID.....: 021088		
MS Run #.....: 1225190							

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000114**

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/09/01 15:00 Date Received..: 08/10/01 19:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H110128-041 <b>Prep Batch #....:</b> 1225345							
Arsenic	89	(75 - 115)		SW846 6010B		08/13-08/15/01 EHVA01AC	
	78	(75 - 115) 13	(0-25)	SW846 6010B		08/13-08/15/01 EHVA01AD	
Dilution Factor: 1							
Analysis Time...: 11:55				Instrument ID...: M01		Analyst ID.....: 021088	
MS Run #.....: 1225191							

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000115

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H110128

Matrix.....: SOLID

Date Sampled...: 08/10/01 14:00 Date Received..: 08/10/01 19:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H110128-061 <b>Prep Batch #:</b> 1225347							
Arsenic	91	(75 - 115)		SW846 6010B		08/13-08/15/01	EHVCP1AC
	91	(75 - 115)	0.82 (0-25)	SW846 6010B		08/13-08/15/01	EHVCP1AD
			Dilution Factor: 1				
			Analysis Time..: 16:28		Instrument ID..: M01		Analyst ID.....: 021088
			MS Run #.....: 1225192				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000116

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TRENT  
SERVICES

**STL Los Angeles**  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808

August 21, 2001

Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

STL LOT NUMBER: E1H170303  
NELAC Certification Number: 01118CA  
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary  
Haley & Aldrich Inc  
9040 Friars Road  
Suite 220  
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 68 samples received under chain of custody by STL Los Angeles on August 17, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. Please note that the samples for TO-14A were received in tedlar bags. As per NELAC, tedlar bags are not appropriate sample collection media for this test.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki  
Project Manager  
CC: Project File

This report contains 000101 pages.

**000001**

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



**Chain of  
Custody Record**

**SEVERN  
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SERVICES**

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH</b>			Project Manager <b>SCOTT ZACHARY</b>							Date <b>8/17/01</b>	Chain of Custody Number <b>054135</b>				
Address <b>9040 FCIARS RD SUITE 220</b>			Telephone Number (Area Code)/Fax Number <b>619-280-9210</b>							Lab Number <b>G14170303</b>	Page <b>1</b> of <b>6</b>				
City <b>SAN DIEGO</b>	State <b>CA</b>	Zip Code <b>92103</b>	Site Contact		Lab Contact		Analysis (Attach list if more space is needed)								
Project Name and Location (State) <b>BOEING C6 - TORRANCE, CA</b>			Carrier/Waybill Number												
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix		Containers & Preservatives		Special Instructions/ Conditions of Receipt								
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date <b>8/17/01</b>	Time <b>13:00</b>	Air <input type="checkbox"/>	Aqueous <input type="checkbox"/>							Sed. <input type="checkbox"/>	Soil <input checked="" type="checkbox"/>	Unpres. <input type="checkbox"/>
<b>PD-107-1'</b>								X	X						X
<b>PD-107-3'</b>															
<b>PD-108-1'</b>															
<b>PD-108-3'</b>															
<b>PD-109-1'</b>															
<b>PD-109-3'</b>															
<b>PD-127-1'</b>															
<b>PD-127-3'</b>															
<b>PD-129-1'</b>															
<b>PD-129-3'</b>															
<b>PD-112-1'</b>															
<b>PD-112-3'</b>															
Possible Hazard Identification			Sample Disposal							(A fee may be assessed if samples are retained longer than 3 months)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Turn Around Time Required										QC Requirements (Specify)					
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <b>TRANS HAMMOND</b>			Date <b>8/17/01</b>	Time <b>14:40</b>	1. Received By <b>Mitchell</b>			Date <b>8-17-01</b>		Time <b>14:40</b>					
2. Relinquished By			Date	Time	2. Received By <b>Swart</b>			Date <b>8-17-01</b>		Time <b>16:10</b>					
3. Relinquished By			Date	Time	3. Received By			Date		Time					
Comments															

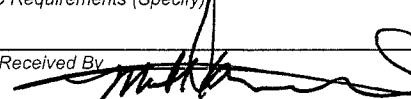
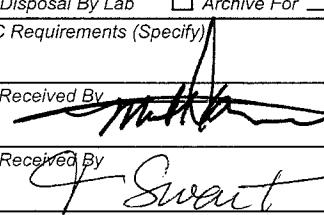
DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

SEVERN  
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Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>Haley &amp; Aldrich - SD</b>			Project Manager								Date		Chain of Custody Number <b>054136</b>		
Address			Telephone Number (Area Code)/Fax Number								Lab Number <b>E1H170303</b>		Page <b>2</b> of <b>6</b>		
City	State	Zip Code	Site Contact			Lab Contact			Analysis (Attach list if more space is needed)						
Project Name and Location (State)			Carrier/Waybill Number												
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix			Containers & Preservatives			<b>Special Instructions/ Conditions of Receipt</b>						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil							Unpress.
PD - 110-1'			8/17/01	13:00				X	X						X
PD - 110-3'															
PD - 111-1'															
PD - 111-3'															
PD - 113-1'															
PD - 113-3'															
PD - 114-1'															
PD - 114-3'															
PD - 130-1'															
PD - 130-3'															
PD - <del>115-1'</del>															
PD - 115-3'															
Possible Hazard Identification						Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required						QC Requirements (Specify)									
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <b>TRAVIS HAMMOND</b>						Date <b>8/17/01</b>	Time <b>14:40</b>	1. Received By					Date <b>8-17-01</b>	Time <b>1440</b>	
2. Relinquished By						Date	Time	2. Received By					Date <b>8-17-01</b>	Time <b>16:10</b>	
3. Relinquished By						Date	Time	3. Received By					Date	Time	
Comments															

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

SEVERN  
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SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH -SD</b>			Project Manager								Date		Chain of Custody Number <b>054137</b>		
Address			Telephone Number (Area Code)/Fax Number								Lab Number <b>E1H170303</b>		Page <b>3</b> of <b>6</b>		
City	State	Zip Code	Site Contact			Lab Contact			Analysis (Attach list if more space is needed)						
Project Name and Location (State)			Carrier/Waybill Number								Special Instructions/ Conditions of Receipt				
Contract/Purchase Order/Quote No. <b>Z7285-001</b>			Matrix			Containers & Preservatives									
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc <sub>2</sub> /NaOH	
PD - 117-1'			8/17/01	13:00			X	X						X	
PD - 117-3'														1	
PD - 116-1'															
PD - 116-3'															
PD - 131-1'															
PD - 131-3'															
PD - 121-1'															
PD - 121-3'															
PD - 134-1'															
PD - 134-3'															
PD - 125-1'															
PD - 125-3'															
Possible Hazard Identification						Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required						QC Requirements (Specify)									
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <b>TRAVIS HANNAWAD</b>			Date <b>8/17/01</b>	Time <b>14:40</b>	1. Received By <b>Michael Jones</b>			Date <b>8-17-01</b>		Time <b>1440</b>					
2. Relinquished By			Date	Time	2. Received By <b>G. Swart</b>			Date <b>8-17-01</b>		Time <b>16:10</b>					
3. Relinquished By			Date	Time	3. Received By			Date		Time					
Comments															

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

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SERVICES**

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client <b>HALEY &amp; ADRICK - SD</b>			Project Manager								Date	Chain of Custody Number <b>054138</b>			
Address			Telephone Number (Area Code)/Fax Number								Lab Number <b>GTH170303</b>	Page <b>4</b> of <b>6</b>			
City	State	Zip Code	Site Contact			Lab Contact			Analysis (Attach list if more space is needed)						
Project Name and Location (State)			Carrier/Waybill Number												
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix			Containers & Preservatives			Special Instructions/ Conditions of Receipt						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil							Unpres.
PD - 126-1'			8/17/01	13:00		X	X								X
PD - 126-3'															
PD - 132-1'															
PD - 132-3'															
PD - 118-1'															
PD - 118-3'															
PD - 119-1'															
PD - 119-3'															
PD - 120-1'															
PD - 120-3'															
PD - 122-1'															
PD - 122-3'															
Possible Hazard Identification						Sample Disposal						(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required						QC Requirements (Specify)									
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other															
1. Relinquished By <b>TRAVIS HAMMOND</b>			Date <b>8/17/01</b>	Time <b>14:40</b>	1. Received By <b>Mulder</b>			Date <b>8-17-01</b>		Time <b>14:40</b>					
2. Relinquished By			Date	Time	2. Received By <b>T. Scott</b>			Date <b>8-17-01</b>		Time <b>16:10</b>					
3. Relinquished By			Date	Time	3. Received By			Date		Time					

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of  
Custody Record**

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH - SD</b>			Project Manager								Date	Chain of Custody Number <b>054139</b>			
Address			Telephone Number (Area Code)/Fax Number								Lab Number <b>E1417C803</b>	Page <b>5</b> of <b>6</b>			
City	State	Zip Code	Site Contact			Lab Contact			Analysis (Attach list if more space is needed)						
Project Name and Location (State)			Carrier/Waybill Number												
Contract/Purchase Order/Quote No. <b>27285-001</b>			Matrix			Containers & Preservatives			Special Instructions/ Conditions of Receipt						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil							Unpres.
PD- 123-1'			8/17/01	13:00		X		X							X
PD- 123- <del>2</del> -3'															
PD- 124-1'															
PD- 124-3'															
PD- 138-1'															
PD- 138-3'															
PD- 139-1'															
PD- 139-3'															
PD- 140-1'															
PD- 140-3'															
PD- 141-1'															
PD- 141-3'					✓				✓						✓
Possible Hazard Identification						Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Turn Around Time Required						QC Requirements (Specify)									
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____															
1. Relinquished By <b>TRAVIS HAMMOND</b>			Date <b>8/17/01</b>	Time <b>14:40</b>	1. Received By <b>Mark Johnson</b>			Date <b>8-17-01</b>	Time <b>1440</b>						
2. Relinquished By			Date	Time	2. Received By <b>Swart</b>			Date <b>8/17/01</b>	Time <b>1610</b>						
3. Relinquished By			Date	Time	3. Received By			Date	Time						
Comments															

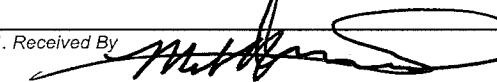
DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

# Chain of Custody Record

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client <b>HALEY &amp; ALDRICH - SD</b>			Project Manager						Date		Chain of Custody Number <b>054140</b>										
Address			Telephone Number (Area Code)/Fax Number						Lab Number <b>EIA 17303</b>		Page <b>6</b> of <b>6</b>										
City	State	Zip Code	Site Contact			Lab Contact			Analysis (Attach list if more space is needed)												
Project Name and Location (State)			Carrier/Waybill Number																		
Contract/Purchase Order/Quote No. <b>27285 -001</b>			Matrix			Containers & Preservatives			Special Instructions/ Conditions of Receipt  <b>ARSENIC</b>												
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil							Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	ZnAc/ NaOH	
PD-142-1'			8/17/01	13:00		X		X													X
PD-142-3'																					
PD-135-1'																					
PD-135-3'																					
PD-136-1'																					
PD-136-3'																					
PD-137-1'																					
PD-137-3'																					
Possible Hazard Identification												Sample Disposal									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown												<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)									
Turn Around Time Required												QC Requirements (Specify)									
<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other:																					
1. Relinquished By <b>TRAVIS HAMMOND</b>				Date <b>8/17/01</b>		Time <b>14:40</b>		1. Received By 				Date <b>8-17-01</b>		Time <b>1440</b>							
2. Relinquished By				Date		Time		2. Received By				Date		Time							
3. Relinquished By				Date		Time		3. Received By				Date		Time							

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**STL LOS ANGELES  
PROJECT RECEIPT CHECKLIST**

Date: 8/17/01

Quantums Lot #: E1H170303  
Client Name: Halcy & Aldrich  
Received by: PAC COLD  
Delivered by :  Client       Airborne       Fed  
                   UPS       DES       Oth

Quote #: 42295  
Project: BRC C-1  
Date/Time Received: 8/17/01 16:10  
 DHL    Ultra-Ex    Rey B.

Custody Seal Status:	<input type="checkbox"/> Intact	<input type="checkbox"/> Broken	<input checked="" type="checkbox"/> None .....	Initial / Date ATR 8/17/01
Custody Seal #s:	<input checked="" type="checkbox"/> No Seal # .....			
Sample Container(s):	<input checked="" type="checkbox"/> STL-LA	<input type="checkbox"/> Client	<input type="checkbox"/> N/A .....	
Temperature(s) (COOLER/BLANK) in °C:	26.2 (CORRECTED TEMP) 26.4			
Thermometer Used :	<input checked="" type="checkbox"/> IR (Infra-red)	<input type="checkbox"/> Digital (Probe) .....		
Samples:	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Broken	<input type="checkbox"/> Other .....	
Anomalies:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes (See Cleuseau) ✓ (below) .....		
Labeled by	ATR			
Labeling checked by				
Turn Around Time:	<input checked="" type="checkbox"/> RUSH-24HR	<input type="checkbox"/> RUSH-48HR	<input type="checkbox"/> RUSH-72HR	<input type="checkbox"/> NORMAL .....
Short-Hold Notification:	<input type="checkbox"/> Ph	<input type="checkbox"/> Wet Chem	<input type="checkbox"/> Metals (Filter/Pres)	<input checked="" type="checkbox"/> Encore
Outside Analysis(es) (Test/Lab/Date Sent Out):	none			
<u>* The samples came directly from the field.</u>				

..... LEAVE NO BLANK SPACES : USE N/A .....

\* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Received

**REVIEWED BY/DATE:**

LUGGAGE

TLS 08/17/01  
000008

## EXECUTIVE SUMMARY - Detection Highlights

E1H170303

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PD_107_1 08/17/01 13:00 001				
Arsenic	8.5	1.0	mg/kg	SW846 6010B
PD_107_3 08/17/01 13:00 002				
Arsenic	3.3	1.0	mg/kg	SW846 6010B
PD_108_1 08/17/01 13:00 003				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_108_3 08/17/01 13:00 004				
Arsenic	20.6	1.0	mg/kg	SW846 6010B
PD_109_1 08/17/01 13:00 005				
Arsenic	135	1.0	mg/kg	SW846 6010B
PD_109_3 08/17/01 13:00 006				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
PD_127_1 08/17/01 13:00 007				
Arsenic	4.1	1.0	mg/kg	SW846 6010B
PD_127_3 08/17/01 13:00 008				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_129_1 08/17/01 13:00 009				
Arsenic	6.1	1.0	mg/kg	SW846 6010B
PD_129_3 08/17/01 13:00 010				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_112_1 08/17/01 13:00 011				
Arsenic	4.9	1.0	mg/kg	SW846 6010B

(Continued on next page)

000009

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H170303**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_112_3 08/17/01 13:00 012				
Arsenic	4.8	1.0	mg/kg	SW846 6010B
PD_110_1 08/17/01 13:00 013				
Arsenic	6.3	1.0	mg/kg	SW846 6010B
PD_110_3 08/17/01 13:00 014				
Arsenic	7.7	1.0	mg/kg	SW846 6010B
PD_111_1 08/17/01 13:00 015				
Arsenic	10.2	1.0	mg/kg	SW846 6010B
PD_111_3 08/17/01 13:00 016				
Arsenic	11.8	1.0	mg/kg	SW846 6010B
PD_113_1 08/17/01 13:00 017				
Arsenic	18.5	1.0	mg/kg	SW846 6010B
PD_113_3 08/17/01 13:00 018				
Arsenic	4.8	1.0	mg/kg	SW846 6010B
PD_114_1 08/17/01 13:00 019				
Arsenic	14.8	1.0	mg/kg	SW846 6010B
PD_114_3 08/17/01 13:00 020				
Arsenic	38.9	1.0	mg/kg	SW846 6010B
PD_130_1 08/17/01 13:00 021				
Arsenic	4.5	1.0	mg/kg	SW846 6010B
PD_130_3 08/17/01 13:00 022				
Arsenic	2.7	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000010**

# **EXECUTIVE SUMMARY - Detection Highlights**

**E1H170303**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_115_1 08/17/01 13:00 023				
Arsenic	4.7	1.0	mg/kg	SW846 6010B
PD_115_3 08/17/01 13:00 024				
Arsenic	5.4	1.0	mg/kg	SW846 6010B
PD_117_1 08/17/01 13:00 025				
Arsenic	27.2	1.0	mg/kg	SW846 6010B
PD_117_3 08/17/01 13:00 026				
Arsenic	2.3	1.0	mg/kg	SW846 6010B
PD_116_1 08/17/01 13:00 027				
Arsenic	6.1	1.0	mg/kg	SW846 6010B
PD_116_3 08/17/01 13:00 028				
Arsenic	2.8	1.0	mg/kg	SW846 6010B
PD_131_1 08/17/01 13:00 029				
Arsenic	2.8	1.0	mg/kg	SW846 6010B
PD_131_3 08/17/01 13:00 030				
Arsenic	4.8	1.0	mg/kg	SW846 6010B
PD_121_1 08/17/01 13:00 031				
Arsenic	342	1.0	mg/kg	SW846 6010B
PD_121_3 08/17/01 13:00 032				
Arsenic	5.8	1.0	mg/kg	SW846 6010B
PD_134_1 08/17/01 13:00 033				
Arsenic	4.7	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000011**

## **EXECUTIVE SUMMARY - Detection Highlights**

E1H170303

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
PD_134_3 08/17/01 13:00 034				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
PD_125_1 08/17/01 13:00 035				
Arsenic	5.0	1.0	mg/kg	SW846 6010B
PD_125_3 08/17/01 13:00 036				
Arsenic	3.0	1.0	mg/kg	SW846 6010B
PD_126_1 08/17/01 13:00 037				
Arsenic	4.3	1.0	mg/kg	SW846 6010B
PD_126_3 08/17/01 13:00 038				
Arsenic	4.3	1.0	mg/kg	SW846 6010B
PD_132_1 08/17/01 13:00 039				
Arsenic	822	1.0	mg/kg	SW846 6010B
PD_132_3 08/17/01 13:00 040				
Arsenic	3.0	1.0	mg/kg	SW846 6010B
PD_118_1 08/17/01 13:00 041				
Arsenic	245	1.0	mg/kg	SW846 6010B
PD_118_3 08/17/01 13:00 042				
Arsenic	2.6	1.0	mg/kg	SW846 6010B
PD_119_1 08/17/01 13:00 043				
Arsenic	214	1.0	mg/kg	SW846 6010B
PD_119_3 08/17/01 13:00 044				
Arsenic	2.3	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000012**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H170303**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_120_1 08/17/01 13:00 045</b>				
Arsenic	11.9	1.0	mg/kg	SW846 6010B
<b>PD_120_3 08/17/01 13:00 046</b>				
Arsenic	2.2	1.0	mg/kg	SW846 6010B
<b>PD_122_1 08/17/01 13:00 047</b>				
Arsenic	106	1.0	mg/kg	SW846 6010B
<b>PD_122_3 08/17/01 13:00 048</b>				
Arsenic	2.0	1.0	mg/kg	SW846 6010B
<b>PD_123_1 08/17/01 13:00 049</b>				
Arsenic	6.8	1.0	mg/kg	SW846 6010B
<b>PD_123_3 08/17/01 13:00 050</b>				
Arsenic	2.2	1.0	mg/kg	SW846 6010B
<b>PD_124_1 08/17/01 13:00 051</b>				
Arsenic	77.6	1.0	mg/kg	SW846 6010B
<b>PD_124_3 08/17/01 13:00 052</b>				
Arsenic	2.7	1.0	mg/kg	SW846 6010B
<b>PD_138_1 08/17/01 13:00 053</b>				
Arsenic	12.0	1.0	mg/kg	SW846 6010B
<b>PD_138_3 08/17/01 13:00 054</b>				
Arsenic	3.7	1.0	mg/kg	SW846 6010B
<b>PD_139_1 08/17/01 13:00 055</b>				
Arsenic	2.5	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000013**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H170303**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_139_3 08/17/01 13:00 056</b>				
Arsenic	3.6	1.0	mg/kg	SW846 6010B
<b>PD_140_1 08/17/01 13:00 057</b>				
Arsenic	3.2	1.0	mg/kg	SW846 6010B
<b>PD_140_3 08/17/01 13:00 058</b>				
Arsenic	2.4	1.0	mg/kg	SW846 6010B
<b>PD_141_1 08/17/01 13:00 059</b>				
Arsenic	5.8	1.0	mg/kg	SW846 6010B
<b>PD_141_3 08/17/01 13:00 060</b>				
Arsenic	7.3	1.0	mg/kg	SW846 6010B
<b>PD_142_1 08/17/01 13:00 061</b>				
Arsenic	4.2	1.0	mg/kg	SW846 6010B
<b>PD_142_3 08/17/01 13:00 062</b>				
Arsenic	4.2	1.0	mg/kg	SW846 6010B
<b>PD_135_1 08/17/01 13:00 063</b>				
Arsenic	38.3	1.0	mg/kg	SW846 6010B
<b>PD_135_3 08/17/01 13:00 064</b>				
Arsenic	3.5	1.0	mg/kg	SW846 6010B
<b>PD_136_1 08/17/01 13:00 065</b>				
Arsenic	22.1	1.0	mg/kg	SW846 6010B
<b>PD_136_3 08/17/01 13:00 066</b>				
Arsenic	25.4	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000014**

## **EXECUTIVE SUMMARY - Detection Highlights**

**E1H170303**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>PD_137_1 08/17/01 13:00 067</b>				
Arsenic	23.6	1.0	mg/kg	SW846 6010B
<b>PD_137_3 08/17/01 13:00 068</b>				
Arsenic	5.0	1.0	mg/kg	SW846 6010B

**000015**

## **METHODS SUMMARY**

**E1H170303**

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**000016**

# SAMPLE SUMMARY

E1H170303

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EH741	001	PD_107_1	08/17/01	13:00
EH755	002	PD_107_3	08/17/01	13:00
EH756	003	PD_108_1	08/17/01	13:00
EH757	004	PD_108_3	08/17/01	13:00
EH758	005	PD_109_1	08/17/01	13:00
EH76A	006	PD_109_3	08/17/01	13:00
EH76C	007	PD_127_1	08/17/01	13:00
EH76E	008	PD_127_3	08/17/01	13:00
EH76F	009	PD_129_1	08/17/01	13:00
EH76H	010	PD_129_3	08/17/01	13:00
EH76K	011	PD_112_1	08/17/01	13:00
EH76L	012	PD_112_3	08/17/01	13:00
EH76N	013	PD_110_1	08/17/01	13:00
EH76P	014	PD_110_3	08/17/01	13:00
EH76Q	015	PD_111_1	08/17/01	13:00
EH76R	016	PD_111_3	08/17/01	13:00
EH76T	017	PD_113_1	08/17/01	13:00
EH76W	018	PD_113_3	08/17/01	13:00
EH76X	019	PD_114_1	08/17/01	13:00
EH760	020	PD_114_3	08/17/01	13:00
EH761	021	PD_130_1	08/17/01	13:00
EH762	022	PD_130_3	08/17/01	13:00
EH763	023	PD_115_1	08/17/01	13:00
EH764	024	PD_115_3	08/17/01	13:00
EH765	025	PD_117_1	08/17/01	13:00
EH766	026	PD_117_3	08/17/01	13:00
EH767	027	PD_116_1	08/17/01	13:00
EH768	028	PD_116_3	08/17/01	13:00
EH77A	029	PD_131_1	08/17/01	13:00
EH77C	030	PD_131_3	08/17/01	13:00
EH77D	031	PD_121_1	08/17/01	13:00
EH77E	032	PD_121_3	08/17/01	13:00
EH77G	033	PD_134_1	08/17/01	13:00
EH77H	034	PD_134_3	08/17/01	13:00
EH77K	035	PD_125_1	08/17/01	13:00
EH77L	036	PD_125_3	08/17/01	13:00

(Continued on next page)

000017

# SAMPLE SUMMARY

E1H170303

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EH77M	037	PD_126_1	08/17/01	13:00
EH77N	038	PD_126_3	08/17/01	13:00
EH77P	039	PD_132_1	08/17/01	13:00
EH77Q	040	PD_132_3	08/17/01	13:00
EH77R	041	PD_118_1	08/17/01	13:00
EH77T	042	PD_118_3	08/17/01	13:00
EH77V	043	PD_119_1	08/17/01	13:00
EH77W	044	PD_119_3	08/17/01	13:00
EH77X	045	PD_120_1	08/17/01	13:00
EH770	046	PD_120_3	08/17/01	13:00
EH771	047	PD_122_1	08/17/01	13:00
EH772	048	PD_122_3	08/17/01	13:00
EH774	049	PD_123_1	08/17/01	13:00
EH775	050	PD_123_3	08/17/01	13:00
EH776	051	PD_124_1	08/17/01	13:00
EH778	052	PD_124_3	08/17/01	13:00
EH779	053	PD_138_1	08/17/01	13:00
EH78A	054	PD_138_3	08/17/01	13:00
EH78D	055	PD_139_1	08/17/01	13:00
EH78E	056	PD_139_3	08/17/01	13:00
EH78F	057	PD_140_1	08/17/01	13:00
EH78G	058	PD_140_3	08/17/01	13:00
EH78H	059	PD_141_1	08/17/01	13:00
EH78J	060	PD_141_3	08/17/01	13:00
EH78L	061	PD_142_1	08/17/01	13:00
EH78M	062	PD_142_3	08/17/01	13:00
EH78N	063	PD_135_1	08/17/01	13:00
EH78P	064	PD_135_3	08/17/01	13:00
EH78Q	065	PD_136_1	08/17/01	13:00
EH78R	066	PD_136_3	08/17/01	13:00
EH78T	067	PD_137_1	08/17/01	13:00
EH78X	068	PD_137_3	08/17/01	13:00

## NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000018

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_107\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-001

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229633								
Arsenic	8.5	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7411AA		
		Dilution Factor:	1	Analysis Time...:	15:42	Analyst ID....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1229288	MDL.....:	0.40	

000019

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_107\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-002

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #....: 1229633</b>						
Arsenic	3.3	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7551AA
		Dilution Factor: 1		Analysis Time...: 16:20	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....:	0.40

000020

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_108\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-003

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #....: 1229633</b>						
Arsenic	4.5	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7561AA
		Dilution Factor: 1		Analysis Time...: 16:43	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....:	0.40

**000021**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_108\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-004                           Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		<u>METHOD</u>	PREPARATION- WORK	
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #: 1229633						
Arsenic	20.6	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7571AA
		Dilution Factor:	1	Analysis Time...:	16:51	Analyst ID....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229288	MDL.....: 0.40

000022

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_109\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-005

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229633					
Arsenic	135	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7581AA
		Dilution Factor:	1	Analysis Time...:	16:59	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1229288	MDL.....: 0.40

000023

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_109\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-006

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-	WORK
					ANALYSIS DATE	ORDER #
Prep Batch #...: 1229633						
Arsenic	4.1	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76A1AA
		Dilution Factor: 1		Analysis Time...: 17:08	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....:	0.40

000024

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_127\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-007

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #....: 1229633</b>						
Arsenic	4.1	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76C1AA
		Dilution Factor:	1	Analysis Time...: 17:16	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229288	MDL.....:	0.40

000025

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_127\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-008 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 1229633						
Arsenic	2.9	1.0	mg/kg	SW846 6010B	08/17-08/20/01 EH76E1AA	
		Dilution Factor: 1		Analysis Time...: 17:33	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....: 0.40	

000026

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_129\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-009

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....: 1229633						
Arsenic	6.1	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76F1AA
		Dilution Factor:	1	Analysis Time...: 17:41	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229288	MDL.....:	0.40

000027

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_129\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-010

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #...: 1229633</b>							
Arsenic	4.5	1.0	mg/kg	SW846 6010B		08/17-08/20/01 EH76H1AA	
		Dilution Factor: 1		Analysis Time...: 17:50		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229288		MDL.....: 0.40	

000028

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_112\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-011

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 1229633						
Arsenic	4.9	1.0	mg/kg	SW846 6010B	08/17~08/20/01 EH76K1AA	
		Dilution Factor: 1		Analysis Time...: 17:58	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....: 0.40	

000029

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_112\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-012

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
<b>Prep Batch #....: 1229633</b>								
Arsenic	4.8	1.0	mg/kg	SW846 6010B		08/17-08/20/01 EH76L1AA		
		Dilution Factor: 1		Analysis Time...: 18:06		Analyst ID.....: 021088		
		Instrument ID...: M01		MS Run #.....: 1229288		MDL.....: 0.40		

000030

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_110\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-013

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229633								
Arsenic	6.3	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76N1AA		
		Dilution Factor:	1	Analysis Time..:	18:29	Analyst ID....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1229288	MDL.....:	0.40	

000031

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_110\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-014                                  Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #: 1229633						
Arsenic	7.7	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76P1AA
		Dilution Factor:	1	Analysis Time...:	18:37	Analyst ID....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229288	MDL.....: 0.40

000032

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_111\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-015

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
<b>Prep Batch #...: 1229633</b>									
Arsenic	10.2	1.0	mg/kg		SW846 6010B		08/17-08/20/01	EH76Q1AA	
		Dilution Factor:	1			Analysis Time...: 18:48		Analyst ID.....: 021088	
		Instrument ID...:	M01			MS Run #.....: 1229288		MDL.....: 0.40	

000033

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_111\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-016

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1229633						
Arsenic	11.8	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76R1AA	
		Dilution Factor:	1	Analysis Time...:	19:02	Analyst ID....:	021088
		Instrument ID..:	M01	MS Run #.....:	1229288	MDL.....:	0.40

000034

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_113\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-017

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
<b>Prep Batch #....: 1229633</b>						
Arsenic	18.5	1.0	mg/kg	SW846 6010B	08/17-08/20/01 EH76T1AA	
		Dilution Factor: 1		Analysis Time...: 19:13	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229288	MDL.....: 0.40	

000035

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_113\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-018

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #: 1229633						
Arsenic	4.8	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76W1AA
		Dilution Factor:	1	Analysis Time..:	19:23	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1229288	MDL.....: 0.40

000036

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_114\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-019

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #: 1229633						
Arsenic	14.8	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH76X1AA
		Dilution Factor:	1	Analysis Time...: 19:34	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229288	MDL.....:	0.40

000037

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_114\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-020

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
Prep Batch #....:	1229633						
Arsenic	38.9	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7601AA	
		Dilution Factor:	1	Analysis Time...:	19:44	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1229288	MDL.....:	0.40

000038

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_130\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-021                           Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....: 1229634							
Arsenic	4.5	1.0	mg/kg	SW846 6010B		08/17-08/20/01 EH7611AA	
		Dilution Factor: 1		Analysis Time...: 20:23		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229289		MDL.....: 0.40	

000039

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_130\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-022

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #....: 1229634							
Arsenic	2.7	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7621AA	
		Dilution Factor: 1		Analysis Time...: 21:01	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1229289	MDL.....:	0.40	

000040

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_115\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-023

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #....:	1229634					
Arsenic	4.7	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7631AA
		Dilution Factor:	1	Analysis Time...:	21:09	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229289	MDL.....: 0.40

000041

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_115\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-024

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1229634</b>						
Arsenic	5.4	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7641AA
		Dilution Factor: 1		Analysis Time...: 21:18	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229289	MDL.....:	0.40

000042

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_117\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-025

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1229634							
Arsenic	27.2	1.0	mg/kg	SW846 6010B			08/17-08/20/01	EH7651AA
		Dilution Factor:	1		Analysis Time..:	21:26	Analyst ID.....:	021088
		Instrument ID..:	M01		MS Run #.....:	1229289	MDL.....:	0.40

000043

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_117\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-026

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1229634</b>						
Arsenic	2.3	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7661AA
		Dilution Factor: 1		Analysis Time...: 21:34	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229289	MDL.....:	0.40

000044

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_116\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-027

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1229634</b>						
Arsenic	6.1	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH7671AA
		Dilution Factor: 1		Analysis Time...: 21:43	Analyst ID.....:	021088
		Instrument ID...: M01		MS Run #.....: 1229289	MDL.....:	0.40

000045

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_116\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-028

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1229634							
Arsenic	2.8	1.0	mg/kg	SW846 6010B			08/17-08/20/01	EH7681AA
		Dilution Factor:	1		Analysis Time...:	22:06		Analyst ID.....: 021088
		Instrument ID...:	M01		MS Run #.....:	1229289		MDL.....: 0.40

000046

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_131\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-029  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229634					
Arsenic	2.8	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77A1AA
		Dilution Factor:	1	Analysis Time...:	22:14	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229289	MDL.....: 0.40

000047

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_131\_3

**TOTAL Metals**

Lot-Sample #...: E1H170303-030

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
<b>Prep Batch #...: 1229634</b>								
Arsenic	4.8	1.0	mg/kg	SW846 6010B			08/17-08/20/01 EH77C1AA	
		Dilution Factor: 1			Analysis Time...: 22:22	Analyst ID.....: 021088		
		Instrument ID...: M01			MS Run #.....: 1229289	MDL.....: 0.40		

**000048**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_121\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-031

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #: 1229634						
Arsenic	342	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77D1AA
		Dilution Factor:	1	Analysis Time...: 22:31	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229289	MDL.....:	0.40

000049

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_121\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-032

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229634					
Arsenic	5.8	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77E1AA
		Dilution Factor:	1	Analysis Time...:	22:39	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229289	MDL.....: 0.40

000050

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_134\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-033

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
<b>Prep Batch #...: 1229634</b>							
Arsenic	4.7	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77G1AA	
		Dilution Factor:	1	Analysis Time...: 22:47	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1229289	MDL.....:	0.40	

000051

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_134\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-034

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
<b>Prep Batch #...: 1229634</b>								
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77H1AA		
		Dilution Factor: 1		Analysis Time...: 22:56	Analyst ID.....:	021088		
		Instrument ID...: M01		MS Run #.....: 1229289	MDL.....:	0.40		

000052

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_125\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-035

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #....:	1229634					
Arsenic	5.0	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77K1AA
		Dilution Factor:	1	Analysis Time...:	23:04	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229289	MDL.....: 0.40

000053

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_125\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-036

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #...: 1229634</b>						
Arsenic	3.0	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77L1AA
		Dilution Factor:	1	Analysis Time...: 23:14	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229289	MDL.....:	0.40

000054

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_126\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-037

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229634					
Arsenic	4.3	1.0	mg/kg	SW846 6010B	08/17-08/20/01	EH77M1AA
		Dilution Factor:	1	Analysis Time...:	23:23	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229289	MDL.....: 0.40

000055

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_126\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-038

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #...: 1229634</b>							
Arsenic	4.3	1.0	mg/kg	SW846 6010B		08/17-08/20/01 EH77N1AA	
		Dilution Factor: 1		Analysis Time...: 23:45		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229289		MDL.....: 0.40	

000056

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_132\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-039

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #...: 1229634</b>							
Arsenic	822	1.0	mg/kg	SW846 6010B		08/17-08/20/01 EH77P1AA	
		Dilution Factor: 1		Analysis Time...: 23:54		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229289		MDL.....: 0.40	

000057

**HALEY & ALDRICH INC**

**Client Sample ID: PD\_132\_3**

**TOTAL Metals**

**Lot-Sample #....:** E1H170303-040

**Matrix.....:** SOLID

**Date Sampled....:** 08/17/01 13:00 **Date Received...:** 08/17/01 16:10

<b>PARAMETER</b>	<b>RESULT</b>	<b>REPORTING</b>			<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>	<b>ANALYSIS DATE</b>	<b>ORDER #</b>
		<b>LIMIT</b>	<b>UNITS</b>						
<b>Prep Batch #....:</b> 1229634									
<b>Arsenic</b>	<b>3.0</b>	<b>1.0</b>	<b>mg/kg</b>		<b>SW846 6010B</b>	<b>08/17-08/21/01</b>	<b>EH77Q1AA</b>		
		Dilution Factor: 1			Analysis Time...: 00:02		Analyst ID.....: 021088		
		Instrument ID...: M01			MS Run #.....: 1229289		MDL.....: 0.40		

**000058**

HALEY & ALDRICH INC

Client Sample ID: PD\_118\_1

TOTAL Metals

Lot-Sample #....: E1H170303-041  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229635								
Arsenic	245	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH77R1AA		
		Dilution Factor:	1	Analysis Time...: 02:40	Analyst ID.....:	021088		
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....:	0.40		

000059

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_118\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-042  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10 Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Prep Batch #....:	1229635						
Arsenic	2.6	1.0	mg/kg	SW846 6010B		08/20-08/21/01	EH77T1AA
		Dilution Factor:	1	Analysis Time...:	03:16	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1229290	MDL.....:	0.40

000060

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_119\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-043

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
<b>Prep Batch #....: 1229635</b>							
Arsenic	214	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH77V1AA	
		Dilution Factor:	1	Analysis Time...: 03:24	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....:	0.40	

000061

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_119\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-044

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229635								
Arsenic	2.3	1.0	mg/kg	SW846 6010B		08/20-08/21/01 EH77W1AA		
		Dilution Factor: 1		Analysis Time...: 03:33		Analyst ID.....: 021088		
		Instrument ID.: M01		MS Run #.....: 1229290		MDL.....: 0.40		

000062

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_120\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-045 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #....: 1229635</b>							
Arsenic	11.9	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH77X1AA	
		Dilution Factor: 1		Analysis Time...: 03:41	Analyst ID.....: 021088		
		Instrument ID...: M01		MS Run #.....: 1229290	MDL.....: 0.40		

000063

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_120\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-046

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #...:	1229635							
Arsenic	2.2	1.0	mg/kg	SW846 6010B			08/20-08/21/01	EH7701AA
		Dilution Factor:	1	Analysis Time..:	04:04	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1229290	MDL.....:	0.40	

000064

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_122\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-047 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229635								
Arsenic	106	1.0	mg/kg	SW846 6010B			08/20-08/21/01	EH7711AA
		Dilution Factor:	1		Analysis Time...:	04:12	Analyst ID....:	021088
		Instrument ID...:	M01		MS Run #.....:	1229290	MDL.....:	0.40

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000065

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_122\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-048

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #....: 1229635</b>							
Arsenic	2.0	1.0	mg/kg	SW846 6010B		08/20-08/21/01 EH7721AA	
		Dilution Factor: 1		Analysis Time...: 04:20		Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229290		MDL.....: 0.40	

000066

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_123\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-049

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK ORDER #
		LIMIT	UNITS		ANALYSIS DATE	WORK	
Prep Batch #...:	1229635						
Arsenic	6.8	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH7741AA	
		Dilution Factor:	1	Analysis Time...:	04:29	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....:	1229290	MDL.....:	0.40

000067

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_123\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-050 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #: 1229635						
Arsenic	2.2	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH7751AA
Dilution Factor: 1 Analysis Time..: 04:37 Analyst ID.....: 021088						
Instrument ID...: M01 MS Run #.....: 1229290 MDL.....: 0.40						

000068

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_124\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-051

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #: 1229635						
Arsenic	77.6	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH7761AA
		Dilution Factor:	1	Analysis Time...: 04:46	Analyst ID.....: 021088	
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....: 0.40	

000069

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_124\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-052 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1229635						
Arsenic	2.7	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH7781AA	
		Dilution Factor: 1		Analysis Time...: 04:54	Analyst ID.....:	021088	
		Instrument ID...: M01		MS Run #.....: 1229290	MDL.....:	0.40	

000070

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_138\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-053

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229635								
Arsenic	12.0	1.0	mg/kg	SW846 6010B		08/20-08/21/01 EH7791AA		
		Dilution Factor:	1	Analysis Time...: 05:02		Analyst ID.....: 021088		
		Instrument ID...:	M01	MS Run #.....: 1229290		MDL.....: 0.40		

000071

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_138\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-054 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #....:	1229635							
Arsenic	3.7	1.0	mg/kg	SW846 6010B			08/20-08/21/01	EH78A1AA
		Dilution Factor:	1	Analysis Time...:	05:11	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....:	1229290	MDL.....:	0.40	

000072

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_139\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-055

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...: 1229635						
Arsenic	2.5	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH78D1AA
		Dilution Factor:	1	Analysis Time...: 05:19	Analyst ID.....: 021088	
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....: 0.40	

000073

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_139\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-056 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS					
Prep Batch #: 1229635								
Arsenic	3.6	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH78E1AA		
		Dilution Factor:	1	Analysis Time..:	05:42	Analyst ID.....:	021088	
		Instrument ID..:	M01	MS Run #.....:	1229290	MDL.....:	0.40	

000074

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_140\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-057

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
<b>Prep Batch #...: 1229635</b>						
Arsenic	3.2	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH78F1AA
		Dilution Factor:	1	Analysis Time...: 05:50	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....:	0.40

000075

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_140\_3

**TOTAL Metals**

Lot-Sample #...: E1H170303-058                    **Matrix.....: SOLID**  
Date Sampled...: 08/17/01 13:00    Date Received..: 08/17/01 16:10

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING			<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u> </u>			
<b>Prep Batch #...: 1229635</b>							
Arsenic	2.4	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH78G1AA	
		Dilution Factor:	1	Analysis Time...: 05:59	Analyst ID.....:	021088	
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....:	0.40	

**000076**

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_141\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-059 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- WORK	
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
<b>Prep Batch #....: 1229635</b>						
Arsenic	5.8	1.0	mg/kg	SW846 6010B	08/20-08/21/01 EH78H1AA	
		Dilution Factor: 1		Analysis Time...: 06:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 1229290	MDL.....: 0.40	

000077

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_141\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-060                           Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....: 1229635						
Arsenic	7.3	1.0	mg/kg	SW846 6010B	08/20-08/21/01	EH78J1AA
		Dilution Factor:	1	Analysis Time...: 06:15	Analyst ID.....:	021088
		Instrument ID...:	M01	MS Run #.....: 1229290	MDL.....:	0.40

000078

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_142\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-061                          Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229636					
Arsenic	4.2	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78L1AA
		Dilution Factor:	1	Analysis Time...:	00:25	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....: 0.40

000079

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_142\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-062 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229636					
Arsenic	4.2	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78M1AA
		Dilution Factor:	1	Analysis Time..:	00:58	Analyst ID.....: 021088
		Instrument ID..:	M01	MS Run #.....:	1229291	MDL.....: 0.40

000080

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_135\_1

## TOTAL Metals

Lot-Sample #...: E1H170303-063

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #...:	1229636					
Arsenic	38.3	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78N1AA
		Dilution Factor:	1	Analysis Time...:	01:21	Analyst ID....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....: 0.40

000081

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_135\_3

## TOTAL Metals

Lot-Sample #....: E1H170303-064

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229636					
Arsenic	3.5	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78P1AA
		Dilution Factor:	1	Analysis Time...:	01:30	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....: 0.40

000082

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_136\_1

## TOTAL Metals

Lot-Sample #....: E1H170303-065 Matrix.....: SOLID  
Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS			
Prep Batch #....:	1229636					
Arsenic	22.1	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78Q1AA
		Dilution Factor:	1	Analysis Time...:	01:38	Analyst ID.....: 021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....: 0.40

000083

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_136\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-066

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Prep Batch #...:	1229636						
Arsenic	25.4	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78R1AA	
		Dilution Factor:	1	Analysis Time...:	01:46	Analyst ID....:	021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....:	0.40

000084

**HALEY & ALDRICH INC**

Client Sample ID: PD\_137\_1

## TOTAL Metals

**Lot-Sample #....:** E1H170303-067      **Matrix.....:** SOLID  
**Date Sampled....:** 08/17/01 13:00    **Date Received...:** 08/17/01 16:10

PARAMETER	RESULT	REPORTING LIMIT			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		UNITS					
Prep Batch #....:	1229636						
Arsenic	23.6	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78T1AA	
Dilution Factor: 1			Analysis Time...: 01:55		Analyst ID.....: 021088		
Instrument ID...: M01			MS Run #.....: 1229291		MDL.....: 0.40		

000085

## HALEY &amp; ALDRICH INC

Client Sample ID: PD\_137\_3

## TOTAL Metals

Lot-Sample #...: E1H170303-068

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-		WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #	
Prep Batch #...:	1229636						
Arsenic	5.0	1.0	mg/kg	SW846 6010B	08/17-08/21/01	EH78X1AA	
		Dilution Factor:	1	Analysis Time...:	02:03	Analyst ID....:	021088
		Instrument ID...:	M01	MS Run #.....:	1229291	MDL.....:	0.40

000086

# QC DATA ASSOCIATION SUMMARY

E1H170303

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 6010B		1229633	1229288
002	SOLID	SW846 6010B		1229633	1229288
003	SOLID	SW846 6010B		1229633	1229288
004	SOLID	SW846 6010B		1229633	1229288
005	SOLID	SW846 6010B		1229633	1229288
006	SOLID	SW846 6010B		1229633	1229288
007	SOLID	SW846 6010B		1229633	1229288
008	SOLID	SW846 6010B		1229633	1229288
009	SOLID	SW846 6010B		1229633	1229288
010	SOLID	SW846 6010B		1229633	1229288
011	SOLID	SW846 6010B		1229633	1229288
012	SOLID	SW846 6010B		1229633	1229288
013	SOLID	SW846 6010B		1229633	1229288
014	SOLID	SW846 6010B		1229633	1229288
015	SOLID	SW846 6010B		1229633	1229288
016	SOLID	SW846 6010B		1229633	1229288
017	SOLID	SW846 6010B		1229633	1229288
018	SOLID	SW846 6010B		1229633	1229288
019	SOLID	SW846 6010B		1229633	1229288
020	SOLID	SW846 6010B		1229633	1229288
021	SOLID	SW846 6010B		1229634	1229289

(Continued on next page)

**000087**

# QC DATA ASSOCIATION SUMMARY

E1H170303

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
022	SOLID	SW846 6010B		1229634	1229289
023	SOLID	SW846 6010B		1229634	1229289
024	SOLID	SW846 6010B		1229634	1229289
025	SOLID	SW846 6010B		1229634	1229289
026	SOLID	SW846 6010B		1229634	1229289
027	SOLID	SW846 6010B		1229634	1229289
028	SOLID	SW846 6010B		1229634	1229289
029	SOLID	SW846 6010B		1229634	1229289
030	SOLID	SW846 6010B		1229634	1229289
031	SOLID	SW846 6010B		1229634	1229289
032	SOLID	SW846 6010B		1229634	1229289
033	SOLID	SW846 6010B		1229634	1229289
034	SOLID	SW846 6010B		1229634	1229289
035	SOLID	SW846 6010B		1229634	1229289
036	SOLID	SW846 6010B		1229634	1229289
037	SOLID	SW846 6010B		1229634	1229289
038	SOLID	SW846 6010B		1229634	1229289
039	SOLID	SW846 6010B		1229634	1229289
040	SOLID	SW846 6010B		1229634	1229289
041	SOLID	SW846 6010B		1229635	1229290
042	SOLID	SW846 6010B		1229635	1229290

(Continued on next page)

**000088**

# QC DATA ASSOCIATION SUMMARY

E1H170303

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
043	SOLID	SW846 6010B		1229635	1229290
044	SOLID	SW846 6010B		1229635	1229290
045	SOLID	SW846 6010B		1229635	1229290
046	SOLID	SW846 6010B		1229635	1229290
047	SOLID	SW846 6010B		1229635	1229290
048	SOLID	SW846 6010B		1229635	1229290
049	SOLID	SW846 6010B		1229635	1229290
050	SOLID	SW846 6010B		1229635	1229290
051	SOLID	SW846 6010B		1229635	1229290
052	SOLID	SW846 6010B		1229635	1229290
053	SOLID	SW846 6010B		1229635	1229290
054	SOLID	SW846 6010B		1229635	1229290
055	SOLID	SW846 6010B		1229635	1229290
056	SOLID	SW846 6010B		1229635	1229290
057	SOLID	SW846 6010B		1229635	1229290
058	SOLID	SW846 6010B		1229635	1229290
059	SOLID	SW846 6010B		1229635	1229290
060	SOLID	SW846 6010B		1229635	1229290
061	SOLID	SW846 6010B		1229636	1229291
062	SOLID	SW846 6010B		1229636	1229291
063	SOLID	SW846 6010B		1229636	1229291

(Continued on next page)

**000089**

# QC DATA ASSOCIATION SUMMARY

E1H170303

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
064	SOLID	SW846 6010B		1229636	1229291
065	SOLID	SW846 6010B		1229636	1229291
066	SOLID	SW846 6010B		1229636	1229291
067	SOLID	SW846 6010B		1229636	1229291
068	SOLID	SW846 6010B		1229636	1229291

000090

**METHOD BLANK REPORT**

**TOTAL Metals**

**Client Lot #...: E1H170303**

**Matrix.....: SOLID**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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**MB Lot-Sample #: E1H170000-633 Prep Batch #...: 1229633**

Arsenic ND 1.0 mg/kg SW846 6010B 08/17-08/20/01 EH79G1AA  
Dilution Factor: 1  
Analysis Time...: 15:28 Analyst ID....: 021088 Instrument ID...: M01

**MB Lot-Sample #: E1H170000-634 Prep Batch #...: 1229634**

Arsenic ND 1.0 mg/kg SW846 6010B 08/17-08/20/01 EH79K1AA  
Dilution Factor: 1  
Analysis Time...: 19:54 Analyst ID....: 021088 Instrument ID...: M01

**MB Lot-Sample #: E1H170000-635 Prep Batch #...: 1229635**

Arsenic ND 1.0 mg/kg SW846 6010B 08/20-08/21/01 EH79M1AA  
Dilution Factor: 1  
Analysis Time...: 02:26 Analyst ID....: 021088 Instrument ID...: M01

**MB Lot-Sample #: E1H170000-636 Prep Batch #...: 1229636**

Arsenic ND 1.0 mg/kg SW846 6010B 08/17-08/21/01 EH79Q1AA  
Dilution Factor: 1  
Analysis Time...: 00:10 Analyst ID....: 021088 Instrument ID...: M01

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000091**

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #...:** E1H170303

**Matrix.....:** SOLID

PARAMETER	SPIKE	MEASURED	PERCNT		PREPARATION-	WORK	
	AMOUNT	AMOUNT	UNITS	RECVRY			
<b>LCS Lot-Sample#:</b> E1H170000-633 <b>Prep Batch #...:</b> 1229633							
Arsenic	200	185	mg/kg	93	SW846 6010B	08/17-08/20/01	EH79G1AC
Dilution Factor: 1							
Analysis Time...: 15:34 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H170000-634 <b>Prep Batch #...:</b> 1229634							
Arsenic	200	179	mg/kg	89	SW846 6010B	08/17-08/20/01	EH79K1AC
Dilution Factor: 1							
Analysis Time...: 20:01 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H170000-635 <b>Prep Batch #...:</b> 1229635							
Arsenic	200	183	mg/kg	92	SW846 6010B	08/20-08/21/01	EH79M1AC
Dilution Factor: 1							
Analysis Time...: 02:32 Analyst ID.....: 021088 Instrument ID...: M01							
<b>LCS Lot-Sample#:</b> E1H170000-636 <b>Prep Batch #...:</b> 1229636							
Arsenic	200	195	mg/kg	98	SW846 6010B	08/17-08/21/01	EH79Q1AC
Dilution Factor: 1							
Analysis Time...: 00:17 Analyst ID.....: 021088 Instrument ID...: M01							

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000092**

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #...:** E1H170303

**Matrix.....:** SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> E1H170000-633 <b>Prep Batch #...:</b> 1229633					
Arsenic	93	(75 - 115)	SW846 6010B	08/17-08/20/01	EH79G1AC
Dilution Factor: 1					
			Analysis Time...: 15:34	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H170000-634 <b>Prep Batch #...:</b> 1229634					
Arsenic	89	(75 - 115)	SW846 6010B	08/17-08/20/01	EH79K1AC
Dilution Factor: 1					
			Analysis Time...: 20:01	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H170000-635 <b>Prep Batch #...:</b> 1229635					
Arsenic	92	(75 - 115)	SW846 6010B	08/20-08/21/01	EH79M1AC
Dilution Factor: 1					
			Analysis Time...: 02:32	Analyst ID.....: 021088	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1H170000-636 <b>Prep Batch #...:</b> 1229636					
Arsenic	98	(75 - 115)	SW846 6010B	08/17-08/21/01	EH79Q1AC
Dilution Factor: 1					
			Analysis Time...: 00:17	Analyst ID.....: 021088	Instrument ID...: M01

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000093**

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1H170303

**Matrix.....:** SOLID

**Date Sampled....:** 08/17/01 13:00 **Date Received...:** 08/17/01 16:10

<b>PARAMETER</b>	<b>SAMPLE SPIKE MEASURED</b>			<b>PERCNT</b>			<b>PREPARATION- ANALYSIS DATE</b>	<b>WORK ORDER #</b>
	<b>AMOUNT</b>	<b>AMT</b>	<b>UNITS</b>	<b>RECVRY</b>	<b>RPD</b>	<b>METHOD</b>		
<b>MS Lot-Sample #:</b> E1H170303-001 <b>Prep Batch #....:</b> 1229633								
Arsenic	8.5	200	192	mg/kg	92	SW846 6010B	08/17-08/20/01 EH7411AC	
	8.5	200	195	mg/kg	93	1.4 SW846 6010B	08/17-08/20/01 EH7411AD	
			Dilution Factor:	1				
			Analysis Time...:	15:59		Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....:	1229288				

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000094**

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H170303

Matrix.....: SOLID

Date Sampled....: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	SAMPLE	SPIKE	MEASURED	PERCNT			PREPARATION-	WORK	ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			

MS Lot-Sample #: E1H170303-021 Prep Batch #....: 1229634

Arsenic

4.5	200	182	mg/kg	89	SW846	6010B	08/17-08/20/01	EH7611AC
4.5	200	195	mg/kg	95	7.2	SW846	6010B	08/17-08/20/01 EH7611AD

Dilution Factor: 1

Analysis Time...: 20:40 Instrument ID...: M01

MS Run #.....: 1229289

Analyst ID.....: 021088

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000095

MATRIX SPIKE SAMPLE DATA REPORT

**TOTAL Metals**

Client Lot #...: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	SAMPLE	SPIKE	MEASURED	PERCNT			PREPARATION-	WORK	ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			

MS Lot-Sample #: E1H170303-041 Prep Batch #...: 1229635

Arsenic

245	200	421	mg/kg	88	SW846	6010B	08/20-08/21/01	EH77R1AC	
245	200	515 N	mg/kg	135	20	SW846	6010B	08/20-08/21/01	EH77R1AD

Dilution Factor: 1

Analysis Time...: 02:57 Instrument ID...: M01 Analyst ID....: 021088

MS Run #.....: 1229290

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

**000096**

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

SAMPLE PARAMETER	SPIKE AMOUNT	MEASURED AMT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: E1H170303-061 Prep Batch #....: 1229636

Arsenic

4.2	200	202	mg/kg	99	SW846	6010B	08/17-08/21/01	EH78L1AC
4.2	200	202	mg/kg	99	0.10	SW846	6010B	08/17-08/21/01

Dilution Factor: 1

Analysis Time...: 00:40 Instrument ID...: M01 Analyst ID.....: 021088

MS Run #.....: 1229291

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000097

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #:</b> E1H170303-001 <b>Prep Batch #:</b> 1229633							
Arsenic	92	(75 - 115)		SW846 6010B		08/17-08/20/01 EH7411AC	
	93	(75 - 115) 1.4 (0-25)		SW846 6010B		08/17-08/20/01 EH7411AD	
Dilution Factor: 1							
Analysis Time...: 15:59 Instrument ID...: M01 Analyst ID.....: 021088							
MS Run #.....: 1229288							

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000098

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H170303-021 <b>Prep Batch #....:</b> 1229634							
Arsenic	89	(75 - 115)		SW846 6010B		08/17-08/20/01 EH7611AC	
	95	(75 - 115) 7.2 (0-25)		SW846 6010B		08/17-08/20/01 EH7611AD	
Dilution Factor: 1							
Analysis Time...: 20:40 Instrument ID...: M01 Analyst ID.....: 021088							
MS Run #.....: 1229289							

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000099**

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received...: 08/17/01 16:10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1H170303-041 <b>Prep Batch #:</b> 1229635							
Arsenic	88	(75 - 115)		SW846 6010B		08/20-08/21/01 EH77R1AC	
	135 N	(75 - 115) 20	(0-25)	SW846 6010B		08/20-08/21/01 EH77R1AD	
		Dilution Factor: 1					
		Analysis Time...: 02:57		Instrument ID...: M01			Analyst ID.....: 021088
		MS Run #.....: 1229290					

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

000100

MATRIX SPIKE SAMPLE EVALUATION REPORT

**TOTAL Metals**

Client Lot #...: E1H170303

Matrix.....: SOLID

Date Sampled...: 08/17/01 13:00 Date Received..: 08/17/01 16:10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #:</b> E1H170303-061 <b>Prep Batch #....:</b> 1229636							
Arsenic	99	(75 - 115)		SW846 6010B		08/17-08/21/01 EH78L1AC	
	99	(75 - 115) 0.10 (0-25)		SW846 6010B		08/17-08/21/01 EH78L1AD	
		Dilution Factor: 1					
		Analysis Time...: 00:40		Instrument ID...: M01		Analyst ID.....: 021088	
		MS Run #.....: 1229291					

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000101**

Appendix B

**APPENDIX B**  
**REFERENCES**

## **REFERENCES**

Los Angeles, Regional Water Quality Control Board, 1998, *No Further Action For Shallow Soil: Parcel A, Boeing Realty Corporation (BRC) C-6 Facility, Los Angeles (File No. 100.315)(SLIC No. 410)*, April 21, 1998.

Appendix C

**APPENDIX C**  
**LIMITATIONS**

## **LIMITATIONS**

This report was prepared by Haley & Aldrich, Inc., under the professional direction and review of the registered professionals listed on the cover page. The work described herein was conducted in accordance with generally accepted professional engineering, health risk assessment and geologic practice. No other warranty exists, either expressed or implied.

In addition to data collected by and observations made by Haley & Aldrich personnel, this report incorporates site conditions observed and described by others as reported in records available to Haley & Aldrich as of the date of report preparation. Haley & Aldrich relied—in part—on such data collected by others in the development of interpretations about environmental conditions at the Facility. The accuracy, precision, or representative nature of data originally generated by others could not be independently verified by Haley & Aldrich and would be beyond the scope of this project.

In addition, the passage of time may result in changes in site conditions, technology, or economic conditions which could alter the findings and/or recommendations of the report.